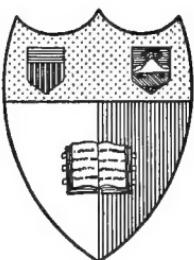


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**Contributions to the flora of Iowa; a cat**



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CONTRIBUTIONS

TO THE

# Flora of Iowa;

A CATALOGUE OF THE

PHÆNOGAMOUS PLANTS.

*Lydia Arthur.*



CONTRIBUTIONS

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Flora of Iowa;

A CATALOGUE OF THE

PHÆNOGAMOUS PLANTS.

PREPARED BY

J. C. ARTHUR.

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## P R E F A C E .

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IN offering this Catalogue to the public, it is proper to state that it has been prepared very hurriedly; the collection upon which it is based, with the exception of the part taken from the fine herbarium of the State Agricultural College, and from a few comparatively small collections made in previous years, having been made during the summer of 1875. Although Botany is taught quite generally in the various schools of the State, yet, with few exceptions, little or no attention is given to the systematic preparation and preservation of native plants, even in the higher Institutions; hence the difficulty of making a complete showing of the Iowa flora.

In preparing the work, accuracy has been thought more desirable than a larger list of names. It is to be hoped that as soon as data can be secured, a more complete Catalogue, with the Cryptogams added, may be published before many of the rarer kinds of plants are exterminated by fires, cattle, cultivation, and other causes.

The information is yet too meagre for a paper on the very interesting subject of geographical distribution. Though lying west of the Mississippi river, which would seem to indicate a western flora, the State in this respect is characteristically eastern. Yet the greater or less variation in the manner of growth, development of parts, and habitat, often show the effect upon the species of the western climatic and other influences.

Collections have been received from various places in the eastern half of the State, and the middle through to the Mis-

souri river, but the large tracts of country lying in the northwest and southwest parts, with their rich and varied flora, could not be reached.

I am under many obligations for valuable contributions and assistance to PROF. C. E. BESSEY, of the Iowa Agricultural College, who published, in the "Fourth Biennial Report of the Agricultural College, 1871," the first and only "Contribution to the Flora of Iowa" thus far made, and who has since been indefatigable in his labors in the Botanical field. I am also greatly indebted to J. W. CONGDON, of East Greenwich, R. I., and to DR. GEO. ENGELMANN, of St. Louis, Mo., for the examination and determination of many specimens. Also to the following gentlemen of the State for contributions of specimens and lists of plants of their respective localities: J. G. HAUPT, Davenport, list of plants from the advance sheets of the "Report of the Academy of Sciences" of that place; E. W. HOLWAY, Decorah; DR. T. D. KELLOGG, Doud's Station, list of plants from Lee County; PROF. CALVIN, of the State University, Iowa City; DR. ASA HORR, Dubuque; DR. GEO. M. KELLOGG, Carthage, Ill., list of Lee County plants; M. E. JONES, Grinnell; REV. R. BURGESS, late of Woodbine; DR. WM. YOUNG, Greene; I. R. S. BIRCH, Birmingham; also, to L. L. CADWELL, conductor on the Milwaukee & St. Paul Railroad, Iowa Division, for assistance in making collections.

Gray's Manual, 5th edition, has furnished the basis of the present work. Introduced plants are printed in *italics*. Varieties are numbered the same as species for facility of reference and exchange. When plants have been reported but from one locality and without specimens, the locality has been generally placed at the foot of the page. The common names have been added for the use of those who prefer them. It has been thought advisable to append descriptions of species and revisions not included in Gray's Manual.

Charles City, March 1, 1876.

J. C. ARTHUR.



# Catalogue.

## RANUNCULACEÆ.

### Clematis

1. Viorna, L.
2. Pitcheri, T. & Gr.
3. Virginiana, L.

### Anemone

4. patens, L., var. Nuttalliana, Gray.
5. Caroliniana, Walt.
6. cylindrica, Gray.
7. Virginiana, L.
8. Pennsylvanica, L.
9. nemorosa, L.

### Hepatica

10. triloba, Chaix.
11. acutiloba, DC.

### Thalictrum

12. anemonoides, Michx.
13. dioicum, L.
14. purpurascens, L.
15. Cornuti, L.

### Ranunculus

16. aquatilis, L., var. trichophyllum, Chaix.
17. var. stagnatilis, DC. (*See App.*)
18. multifidus, Pursh.
19. Cymbalaria, Pursh.
20. rhomboideus, Goldie.
21. abortivus, L.
22. sceleratus, L.
23. recurvatus, Poir.\*
24. Pennsylvanicus, L.
25. fascicularis, Muhl.
26. repens, L.
27. bulbosus, L.
28. acris, L.

### Myosurus

29. minimus, L.\*

### Isopyrum

30. bibernatum, T. & Gr.

## CROWFOOT FAMILY.

### Virgin's-Bower.

1. Leather-flower.
2. ——
3. Common Virgin's-Bower.

### Anemone.

4. Pasque-flower.
5. Carolina Anemone.
6. Long-fruited A.
7. Virginian A.
8. Pennsylvanian A.
9. Wood A. Wind-flower.

### Liver-leaf. Hepatica.

10. Round-lobed Hepatica.
11. Sharp-lobed H.

### Meadow-Rue.

12. Rue-Anemone.
13. Early Meadow-Rue.
14. Purplish M.
15. Tall M.

### Crowfoot. Buttercup.

16. Common White Water-Crowfoot.
17. Stiff Water-C.
18. Yellow Water-C.
19. Sea-side C.
20. ——
21. Small-flowered C.
22. Cursed C.
23. Hooked C.
24. Bristly C.
25. Early C.
26. Creeping C.
27. Buttercups.
28. "

### Mouse-tail.

29. Mouse-tail.

### Isopyrum.

30. Isopyrum.

\*Davenport.

|  |  |
|--|--|
| <b>Caltha</b>  | <b>Marsh Marigold.</b>                 |
| 31. <i>palustris</i> , L.                              | 31. Marsh Marigold.                    |
| <b>Aquilegia</b>                                       | <b>Columbine.</b>                      |
| 32. <i>Canadensis</i> , L.                             | 32. Wild Columbine.                    |
| <b>Delphinium</b>                                      | <b>Larkspur.</b>                       |
| 33. <i>exaltatum</i> , Ait.*                           | 33. Tall Larkspur.                     |
| 34. <i>tricorne</i> , Michx.                           | 34. Dwarf L.                           |
| 35. <i>azureum</i> , Michx.                            | 35. Azure L.                           |
| <b>Hydrastis</b>                                       | <b>Orange-root. Yellow Puccoon.</b>    |
| 36. <i>Canadensis</i> , L.†                            | 36. Orange-root.                       |
| <b>Actaea</b>  | <b>Baneberry.</b>                      |
| 37. <i>spicata</i> , L., var. <i>rubra</i> ,<br>Michx. | 37. Red Baneberry.                     |
| 38. <i>alba</i> , Bigel.                               | 38. White E.                           |
| <b>ANONACEÆ.</b>                                       | <b>CUSTARD-APPLE FAMILY.</b>           |
| <b>Asimina</b>   | <b>North American Papaw.</b>           |
| 39. <i>triloba</i> , Dunal.                            | 39. Common Papaw.                      |
| <b>MENISPERMACEÆ.</b>                                  | <b>MOONSEED FAMILY.</b>                |
| <b>Menispermum</b>                                     | <b>Moonseed.</b>                       |
| 40. <i>Canadense</i> , L.                              | 40. Canadian Moonseed.                 |
| <b>BERBERIDACEÆ.</b>                                   | <b>BARBERRY FAMILY.</b>                |
| <b>Caulophyllum</b>                                    | <b>Blue Cohosh.</b>                    |
| 41. <i>thalictroides</i> , Michx.                      | 41. Blue Cohosh.                       |
| <b>Podophyllum</b>                                     | <b>May-Apple. Mandrake.</b>            |
| 42. <i>peltatum</i> , L.                               | 42. May-Apple.                         |
| <b>NYMPHÆACEÆ.</b>                                     | <b>WATER-LILY FAMILY.</b>              |
| <b>Nelumbium</b>                                       | <b>Nelumbo. Sacred Ban.</b>            |
| 43. <i>luteum</i> , Willd.                             | 43. Yellow Nelumbo.                    |
| <b>Nymphaea</b>  | <b>Water-Lily. Water-Nymph.</b>        |
| 44. <i>tuberosa</i> , Paine.                           | 44. Tuber-bearing W.                   |
| <b>Nuphar</b>  | <b>Yellow Pond-Lily. Spatter-Dock.</b> |
| 45. <i>advena</i> , Ait.                               | 45. Common Yellow P.                   |
| <b>SARRACENIACEÆ.</b>                                  | <b>PITCHER-PLANT FAMILY.</b>           |
| <b>Sarracenia</b>                                      | <b>Side-saddle Flower.</b>             |
| 46. <i>purpurea</i> , L.*                              | 46. Pitcher-Plant.                     |
| <b>PAPAVERACEÆ.</b>                                    | <b>POPPY FAMILY.</b>                   |
| <b>Chelidonium</b>                                     | <b>Celandine.</b>                      |
| 47. <i>majus</i> , L.†                                 | 47. Celandine.                         |
| <b>Sanguinaria</b>                                     | <b>Blood-root.</b>                     |
| 48. <i>Canadensis</i> , L.                             | 48. Blood-root.                        |
| <b>FUMARIACEÆ.</b>                                     | <b>FUMITORY FAMILY.</b>                |
| <b>Dicentra</b>  | <b>Dutchman's Breeches.</b>            |
| 49. <i>Cucullaria</i> , DC.                            | 49. Dutchman's Breeches.               |
| <b>Corydalis</b>                                       | <b>Corydalis.</b>                      |
| 50. <i>aurea</i> , Willd.                              | 50. Golden Corydalis.                  |
| 51. var. <i>occidentalis</i> , Engel.                  | 51. Western Golden C.                  |

| CRUCIFERÆ.                                  |  | MUSTARD FAMILY.          |
|---|--|--------------------------|
| Nasturtium                                  |  | Water-Cress.             |
| 52. sinuatum, Nutt.                         |  | 52. Water-Cress.         |
| 53. obtusum, Nutt.*                         |  | 53. " "                  |
| 54. palustre, DC.                           |  | 54. Marsh-Cress.         |
| 55. var. hispidum, Gray.*                   |  | 55. "                    |
| Dentaria                                    |  | Toothwort. Pepper-root.  |
| 56. diphylla, L.                            |  | 56. Pepper-root.         |
| 57. laciniata, Muhl.                        |  | 57. "                    |
| Cardamine                                   |  | Bitter Cress.            |
| 58. rhomboidea, DC.                         |  | 58. Spring Cress.        |
| 59. var. purpurea, Torr.                    |  | 59. Purple Spring C.     |
| 60. hirsuta, L.                             |  | 60. Small Bitter C.      |
| Arabis                                      |  | Rock Cress.              |
| 61. lyrata, L.                              |  | 61. Rock Cress.          |
| 62. dentata, T. & Gr.                       |  | 62. "                    |
| 63. laevigata, DC.                          |  | 63. "                    |
| 64. Canadensis, L.                          |  | 64. Sickle-pod.          |
| 65. hesperidoides, Gray.                    |  | 65. Rock Cress.          |
| 66. Drummondii, Gray.                       |  | 66. Tower Mustard.       |
| Erysimum                                    |  | Wormseed Mustard.        |
| 67. cheiranthoides, L.                      |  | 67. Worm-seed Mustard.   |
| 68. asperum, DC., var. pumilum (?), Watson. |  | 68. Western Wall-flower. |
| Sisymbrium                                  |  | Hedge Mustard.           |
| 69. officinale, Scop.                       |  | 69. Hedge Mustard.       |
| 70. canescens, Nutt.                        |  | 70. Tansy M.             |
| Brassica                                    |  | Mustard.                 |
| 71. <i>Sinapistrum</i> , Boissier.          |  | 71. Charlock.            |
| 72. <i>alba</i> , Boissier.                 |  | 72. White Mustard.       |
| 73. <i>nigra</i> , Boissier.                |  | 73. Black M.             |
| Draaba                                      |  | Whitlow Grass.           |
| 74. cuneifolia, Nutt.                       |  | 74. Whitlow-Grass.       |
| 75. Caroliniana, Walt.                      |  | 75. "                    |
| 76. var. micrantha, Gray.                   |  | 76. "                    |
| Alyssum                                     |  | Alyssum.                 |
| 77. <i>calycinum</i> , L.                   |  | 77. Alyssum.             |
| Camelina                                    |  | False Flax.              |
| 78. <i>sativa</i> , Crantz.                 |  | 78. False Flax.          |
| Capsella                                    |  | Shepherd's Purse.        |
| 79. <i>Bursa-pastoris</i> , Mœnch.          |  | 79. Shepherd's Purse.    |
| Lepidium                                    |  | Pepperwort. Peppergrass. |
| 80. Virginicum, L.                          |  | 80. Wild Peppergrass.    |
| 81. intermedium, Gray.                      |  | 81. " "                  |
| CAPPARIDACEÆ,                               |  | CAPER FAMILY.            |
| Polanisia                                   |  | Polanisia.               |
| 82. graveolens, Raf.                        |  | 82. Polanisia.           |
| Cleome                                      |  | Cleome.                  |
| 83. integrifolia, T & Gr.                   |  | 83. Cleome.              |

\*Davenport.

## RESEDACEÆ.

## Reseda†

84. *Luteola*, L.

## VIOLACEÆ.

## Viola

- 85. *blanda*, Willd.\*
- 86. *cucullata*, Ait.
- 87. var. *palmata*, Gray.
- 88. *sagittata*, Ait.
- 89. *delphinifolia*, Nutt.
- 90. *pedata*, L.
- 91. *Canadensis*, L. (*See App.*)
- 92. *pubescens*, Ait.
- 93. var. *eriocarpa*, Nutt.\*
- 94. *tricolor*, L., var. *avensis*, DC.

## CISTACEÆ.

## Helianthemum

95. *Canadense*, Michx.

## Lechea

96. *minor*, Lam.

## HYPERICACEÆ.

## Hypericum

- 97. *pyramidatum*, Ait.
- 98. *perforatum*, L.
- 99. *corymbosum*, Muhl.
- 100. *mutilum*, L.\*
- 101. *Canadense*, L.
- 102. *Drummondii*, T. & Gr.

## Erodies

103. *Virginica*, Nutt.

## CARYOPHYLLACEÆ.

## Saponaria

104. *officinalis*, L.

## Vaccaria

105. *vulgaris*, Host.

## Silene

- 106. *stellata*, Ait.
- 107. *nivea*, DC.
- 108. *inflata*, Smith.
- 109. *antirrhina*, L.
- 110. *noctiflora*, L.

## Lychnis

111. *Githago*, Lam.

## Arenaria

- 112. *serpyllifolia*, L.
- 113. *lateriflora*, L.

## Stellaria

- 114. *media*, Smith.
- 115. *longifolia*, Muhl.

## MIGNONETTE FAMILY.

## Dyer's Rocket.

84. Dyer's Weed or Weld.

## VIOLET FAMILY.

- Violet, Heart's-ease.**
- 85. Sweet White Violet.
- 86. Common Blue V.
- 87. Hand-leaf V.
- 88. Arrow-leaved V.
- 89. Larkspur V.
- 90. Bird-foot V.
- 91. Canada V.
- 92. Downy Yellow V.
- 93. " "
- 94. Heart's-ease.

## ROCK-ROSE FAMILY.

## Rock-rose.

95. Frost-weed.

## Pinweed.

96. Pinweed.

## ST. JOHN'S-WORT FAMILY.

## St. John's-wort.

- 97. Great St. J.
- 98. Common St. J.
- 99. St. John's-wort.
- 100. "
- 101. "
- 102. "

## Marsh St. John's-wort.

103. Marsh St. J.

## PINK FAMILY.

## Soapwort.

104. Bouncing Bet. Common S.

## Cow-Herb.

105. Cow-Herb.

## Catchfly. Campion.

- 106. Starry Campion.
- 107. Campion.
- 108. Bladder Campion.
- 109. Sleepy Catchfly.
- 110. Night-flowering Catchfly.

## Lychnis. Cockle.

111. Corp Cockle.

## Sandwort.

112. Thyme-leaved S.

113. Sandwort.

## Chickweed. Starwort.

114. Common Chickweed.

115. Long-leaved Stitchwort.

|   |                             |
|---|-----------------------------|
| <b>Cerastium</b>  | <b>Mouse-ear Chickweed.</b> |
| 116. <i>viscosum</i> , L.                               | 116. Mouse-ear Chickweed.   |
| 117. <i>nutans</i> , Raf.                               | 117. " "                    |
| 118. <i>oblongifolium</i> , Torr.                       | 118. " "                    |
| <b>Spergula</b>   | <b>Spurrey.</b>             |
| 119. <i>arvensis</i> , L.                               | 119. Corn Spurrey.          |
| <b>Anychia</b>  | <b>Forked Chickweed.</b>    |
| 120. <i>dichotoma</i> , Michx. var. <i>capillacea</i> , | 120. Forked C.              |
| 121. var. <i>dichotoma</i> .                            | 121. "                      |
| <b>Mollugo</b>  | <b>Indian-Chickweed.</b>    |
| 122. <i>verticillata</i> , L.                           | 122. Carpet-weed.           |
| <b>POTULACACEÆ.</b>                                     | <b>PURSLANE FAMILY.</b>     |
| <b>Portulaca</b>  | <b>Purslane.</b>            |
| 123. <i>oleracea</i> , L.                               | 123. Common Purslane.       |
| 124. <i>retusa</i> , Engel.* (See App.)                 | 124. Western P.             |
| <b>Claytonia</b>  | <b>Spring-Beauty.</b>       |
| 125. <i>Virginica</i> , L.                              | 125. Narrow-leaved S.       |
| 126. <i>Caroliniana</i> , Michx.                        | 126. Wide-leaved S.         |
| <b>MALVACEÆ.</b>  | <b>MALLOW FAMILY.</b>       |
| <b>Malva</b>  | <b>Mallow.</b>              |
| 127. <i>rotundifolia</i> , L.                           | 127. Common M.              |
| 128. <i>sylvestris</i> , L.                             | 128. High M.                |
| 129. <i>crispa</i> , L.                                 | 129. Curled M.              |
| <b>Callirhoe</b>  | <b>Callirhoe.</b>           |
| 130. <i>triangulata</i> , Gr.                           | 130. Callirhoe.             |
| 131. <i>involucrata</i> , Gr. (See App.)                | 131. "                      |
| <b>Napaæa</b>   | <b>Glade Mallow.</b>        |
| 132. <i>dioica</i> , L.                                 | 132. Glade M.               |
| <b>Malvastrum</b>                                       | <b>False Mallow.</b>        |
| 133. <i>angustum</i> , Gray.                            | 133. False M.               |
| <b>Sida</b>   | <b>Sida.</b>                |
| 134. <i>spinosa</i> , L.                                | 134. Sida.                  |
| <b>Abutilon</b>   | <b>Indian Mallow.</b>       |
| 135. <i>Avicinnae</i> , Gærtn.                          | 135. Velvet-Leaf. Indian M. |
| <b>Hibiscus</b>   | <b>Rose-Mallow.</b>         |
| 136. <i>militaris</i> , Cav.                            | 136. Halberd-leaved R.      |
| 137. <i>Trionum</i> , L.                                | 137. Bladder Ketzmia.       |
| <b>TILIACEÆ.</b>  | <b>LINDEN FAMILY.</b>       |
| <b>Tilia</b>  | <b>Basswood. Linden.</b>    |
| 138. <i>Americana</i> , L.                              | 138. Basswood. Whitewood.   |
| <b>LINACEÆ.</b>   | <b>FLAX FAMILY.</b>         |
| <b>Linum</b>  | <b>Flax.</b>                |
| 139. <i>Virginianum</i> , L.                            | 139. Wild Flax.             |
| 140. <i>sulcatum</i> , Riddell.                         | 140. " "                    |
| <b>GERANIACEÆ.</b>                                      | <b>GERANIUM FAMILY.</b>     |
| <b>Geranium</b>   | <b>Cranesbill.</b>          |
| 141. <i>maculatum</i> , L.                              | 141. Wild C.                |
| 142. <i>Carolinianum</i> , L.                           | 142. Carolina C.            |

\*Fide Prof. Seldon, Davenport.

- Floraea**  
 143. *proserpinacoides*, Willd.\*
- Impatiens**  
 144. *pallida*, Nutt.  
 145. *fulva*, Nutt.
- Oxalis**  
 146. *violacea*, L.  
 147. *stricta*, L.
- RUTACEÆ.**
- Zanthoxylum**  
 148. *Americanum*, Mill.
- Ptelea**  
 149. *trifoliata*, L.
- ANACARDIACEÆ.**
- Rhus**  
 150. *typhina*, L.†  
 151. *glabra*, L.  
 152. *Toxicodendron*, L.  
 153. var. *radicans*, Torr.  
 154. *aromatica*, Ait.
- VITACEÆ.**
- Vitis**  
 155. *cordifolia*, Michx. (*See App*)  
 156. *riparia*, Michx. (*See App*)
- Ampelopsis**  
 157. *quinquefolia*, Michx.
- RHAMNACEÆ.**
- Rhamnus**  
 158. *lanceolatus*, Pursh.
- Ceanothus**  
 159. *Americanus*, L.  
 160. *ovalis*, Bigel.
- CELASTRACEÆ.**
- Celastrus**  
 161. *scandens*, L.
- Euonymus**  
 162. *atropurpureus*, Jacq.
- SAPINDACEÆ.**
- Staphylea**  
 163. *trifolia*, L.
- Aesculus**  
 164. *glabra*, Willd.  
 165. *flava*, Ait.
- Acer**  
 166. *saccharinum*, Wang.  
 167. var. *nigrum*, Gr.  
 168. *dasycarpum*, Ehrh.  
 169. *rubrum*, L.
- False Mermaid.**  
 143. False M.
- Balsam. Jewel-weed.**  
 144. Pale Touch-me-not.  
 145. Spotted T.
- Wood-Sorrel.**  
 146. Violet W.  
 147. Yellow W.
- RUE FAMILY.**
- Prickly-Ash. Toothache-tree.**  
 148. Northern P.
- Shrubby Trefoil. Hop-tree.**  
 149. Hop-tree.
- CASHEW FAMILY.**
- Sumach.**  
 150. Staghorn Sumach.  
 151. Smooth S.  
 152. Poison Ivy. Poison Oak.  
 153. Climbing Ivy. Poison Ivy.  
 154. Fragrant Sumach.
- VINE FAMILY.**
- Grape.**  
 155. Winter or Frost Grape.  
 156. " " "
- Virginian Creeper.**  
 157. American Ivy. Virginian C.
- BUCKTHORN FAMILY.**
- Buckthorn.**  
 158. Western B.
- New Jersey Tea. Red-root.**  
 159. New Jersey Tea.  
 160. Red-root.
- STAFF-TREE FAMILY.**
- Staff-tree. Bitter-sweet.**  
 161. Climbing B.
- Spindle-tree.**  
 162. Burning-Bush. Waahoo.
- SOAPBERRY FAMILY.**
- Bladder-nut.**  
 163. American B.
- Horse-chestnut. Buckeye.**  
 164. Fetid or Ohio Buckeye.  
 165. Sweet B.
- Maple.**  
 166. Sugar or Rock-Maple.  
 167. Black Sugar-M.  
 168. Silver M.  
 169. Red or Swamp M.

|   |                                     |
|---|-------------------------------------|
| <b>Negundo</b>                                    | <b>Ash-leaved Maple. Box-Elder.</b> |
| 170. <i>aceroides</i> , Mœnch.                    | 170. Box-Elder.                     |
| <b>POLYGALACEÆ.</b>                               |                                     |
| <b>Polygala</b>                                   | <b>MILKWORT FAMILY.</b>             |
| 171. <i>incarnata</i> , L.                        | 171. Milkwort.                      |
| 172. <i>sanguinea</i> , L.                        | 172. "                              |
| 173. <i>verticillata</i> , L.                     | 173. "                              |
| 174. <i>Senega</i> , L.                           | 174. Seneca Snakeroot.              |
| <b>LEGUMINOSÆ.</b>                                |                                     |
| <b>Crotalaria</b>                                 | <b>PULSE FAMILY.</b>                |
| 175. <i>sagittalis</i> , L.                       | 175. Rattle-box.                    |
| <b>Trifolium</b>                                  | <b>Clover. Trefoil.</b>             |
| 176. <i>arvense</i> , L.                          | 176. Rabbit-foot or Stone C.        |
| 177. <i>pratense</i> , L.                         | 177. Red C.                         |
| 178. <i>stoloniferum</i> , Muhl.                  | 178. Running Buffalo-C.             |
| 179. <i>repens</i> , L.                           | 179. White C.                       |
| 180. <i>procumbens</i> , L.                       | 180. Low Hop-C.                     |
| <b>Melilotus</b>                                  | <b>Sweet-Clover. Melilot.</b>       |
| 181. <i>officinalis</i> , Willd.                  | 181. Yellow S.                      |
| 182. <i>alba</i> , Lam.                           | 182. White S.                       |
| <b>Medicago</b>                                   | <b>Medick.</b>                      |
| 183. <i>sativa</i> , L.                           | 183. Lucerne.                       |
| 184. <i>lupulina</i> , L.                         | 184. Black Medick. Nonesuch.        |
| <b>Psoralea</b>                                   | <b>Psoralea</b>                     |
| 185. <i>floribunda</i> , Nutt.                    | 185. Psoralea.                      |
| 186. <i>argophylla</i> , Pursh.                   | 186. "                              |
| 187. <i>esculenta</i> , Pursh.                    | 187. Pomme de Prairie.              |
| <b>Dalea</b>                                      | <b>Dalea</b>                        |
| 188. <i>alopecuroides</i> , Willd.                | 188. Dalea.                         |
| 189. <i>laxiflora</i> , Pursh. (See <i>App.</i> ) | 189. "                              |
| <b>Petalostemon</b>                               | <b>Prairie-Clover.</b>              |
| 190. <i>violaceus</i> , Michx.                    | 190. Purple P.                      |
| 191. <i>candidus</i> , Michx.                     | 191. White P.                       |
| <b>Amorpha</b>                                    | <b>False Indigo.</b>                |
| 192. <i>fruticosa</i> , L.                        | 192. False I.                       |
| 193. <i>canescens</i> , Nutt.                     | 193. Lead-Plant.                    |
| <b>Robinia</b>                                    | <b>Locust-tree.</b>                 |
| 194. <i>Pseudacacia</i> , L.                      | 194. False Acacia. Common L.        |
| <b>Tephrosia</b>                                  | <b>Hoary Pea.</b>                   |
| 195. <i>Virginiana</i> , Pers.                    | 195. Goat's Rue.                    |
| <b>Astragalus</b>                                 | <b>Milk-Vetch.</b>                  |
| 196. <i>caryocarpus</i> , Ker.                    | 196. Ground Plum.                   |
| 197. <i>Canadensis</i> , L.                       | 197. Milk-Vetch.                    |
| 198. <i>Cooperi</i> , Gray.*                      | 198. "                              |
| 199. <i>distortus</i> , T. & Gr.                  | 199. "                              |
| <b>Oxytropis</b>                                  | <b>Oxytropis.</b>                   |
| 200. <i>Lamberti</i> , Pursh.                     | 200. Oxytropis.                     |
| <b>Glycyrrhiza</b>                                | <b>Liquorice.</b>                   |
| 201. <i>lepidota</i> , Nutt.                      | 201. Wild L.                        |

\*Lee County.

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| <b>Desmodium</b>                      | <b>Tick-Trefoil.</b>                   |
| 202. <i>acuminatum</i> , DC.          | 202. Tick-Trefoil.                     |
| 203. <i>canescens</i> , DC.*          | 203. "                                 |
| 204. <i>cuspidatum</i> , T. & Gr.     | 204. "                                 |
| 205. <i>paniculatum</i> , DC.         | 205. "                                 |
| 206. <i>Canadense</i> , DC.†          | 206. "                                 |
| 207. <i>sessilifolium</i> , T. & Gr.  | 207. "                                 |
| <b>Lespedeza</b>                      | <b>Bush-Clover.</b>                    |
| 208. <i>capitata</i> , Michx.         | 208. Bush-Clover.                      |
| 209. var. <i>angustifolia</i> , Gray. | 209. "                                 |
| <b>Vicia</b>                          | <b>Vetch. Tare.</b>                    |
| 210. <i>Cracca</i> , L.               | 210. Vetch.                            |
| 211. <i>Caroliniana</i> , Walt.       | 211. "                                 |
| 212. <i>Americana</i> , Muhl.         | 212. "                                 |
| <b>Lathyrus</b>                       | <b>Vetchling. Everlasting Pea.</b>     |
| 213. <i>venosus</i> , Muhl.           | 213. Vetchling.                        |
| 214. <i>ochroleucus</i> , Hook.       | 214. "                                 |
| 215. <i>palustris</i> , L.            | 215. Marsh V.                          |
| <b>Apisos</b>                         | <b>Ground-nut. Wild Bean.</b>          |
| 216. <i>tuberosa</i> , Mœnch.         | 216. Ground-nut.                       |
| <b>Phaseolus</b>                      | <b>Kidney Bean.</b>                    |
| 217. <i>perennis</i> , Walt.          | 217. Wild Bean.                        |
| 218. <i>diversifolius</i> , Pers.     | 218. " "                               |
| 219. <i>pauciflorus</i> , Benth.      | 219. " "                               |
| <b>Amphicarpæa</b>                    | <b>Hog Pea-nut.</b>                    |
| 220. <i>monoica</i> , Nutt.           | 220. Hog P.                            |
| <b>Baptisia</b>                       | <b>False-Indigo.</b>                   |
| 221. <i>leucantha</i> , T. & Gr.      | 221. White F.                          |
| 222. <i>leucophaea</i> , Nutt.        | 222. Yellow F.                         |
| <b>Cercis</b>                         | <b>Red-bud. Judas-tree.</b>            |
| 223. <i>Canadensis</i> , L.           | 223. Red-bud.                          |
| <b>Cassia</b>                         | <b>Senna.</b>                          |
| 224. <i>Marilandica</i> , L.‡         | 224. Wild Senna.                       |
| 225. <i>Chamæcrista</i> , L.          | 225. Partridge Pea.                    |
| <b>Gymnocladus</b>                    | <b>Kentucky Coffee-tree.</b>           |
| 226. <i>Canadensis</i> , Lam.         | 226. Kentucky C.                       |
| <b>Gleditschia</b>                    | <b>Honey-Locust.</b>                   |
| 227. <i>triacanthos</i> , L.          | 227. Honey-L. Three-thorned<br>Acacia. |
| <b>Desmanthus</b>                     | <b>Desmanthus</b>                      |
| 228. <i>brachylobus</i> , Benth.      | 128. Desmanthus.                       |
| <br><b>ROSACEÆ.</b>                   |  |
| <b>Prunus</b>                         | <b>ROSE FAMILY.</b>                    |
| 229. <i>Americana</i> , Marshall.     | <b>Plum, Cherry.</b>                   |
| 230. <i>Pennsylvanica</i> , L.        | 229. Wild Yellow or Red Plum.          |
| 231. <i>Virginiana</i> , L.           | 230. Wild Red Cherry.                  |
| 232. <i>serotina</i> , Ehrh.          | 231. Choke-Cherry.                     |
|                                       | 232. Wild Black C.                     |

\*Lee County.

†Indianola.

‡Davenport.

|  |                                  |
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| <b>Spiraea</b>   | <b>Meadow-Sweet.</b>             |
| 233. <i>opulifolia</i> , L.  | 233. Nine-Bark.                  |
| 234. <i>salicifolia</i> , L.   | 234. Common M.                   |
| 235. <i>lobata</i> , Murr.   | 235. Queen of the Prairie.       |
| <b>Agrimonia</b>   | <b>Agrimony.</b>                 |
| 236. <i>Eupatoria</i> , L.   | 236. Common A.                   |
| <b>Geum</b>  | <b>Avens.</b>                    |
| 237. <i>album</i> , Gmelin.  | 237. Avens.                      |
| 238. <i>strictum</i> , Ait.  | 238. "                           |
| 239. <i>triflorum</i> , Pursh.   | 239. Three-flowered A.           |
| <b>Potentilla</b>  | <b>Cinque-foil. Five-finger.</b> |
| 240. <i>Norvegica</i> , L.   | 240. Five-finger.                |
| 241. <i>rivalis</i> , Nutt., var. <i>pentandra</i> , Watson. ( <i>See App.</i> ) | 241. "                           |
| 242. <i>paradoxa</i> , Nutt.   | 242. "                           |
| 243. <i>Canadensis</i> , L.  | 243. Common F.                   |
| 244. <i>arguta</i> , Pursh.  | 244. Five-finger.                |
| <b>Fragaria</b>  | <b>Strawberry.</b>               |
| 245. <i>Virginiana</i> , Ehrh.   | 245. Wild S.                     |
| 246. var. <i>Illiinoensis</i> , Gray.  | 246. "                           |
| 247. <i>vesca</i> , L.   | 247. "                           |
| <b>Rubus</b>   | <b>Bramble.</b>                  |
| 248. <i>strigosus</i> , Michx.   | 248. Wild Red Raspberry.         |
| 249. <i>occidentalis</i> , L.  | 249. Black Raspberry.            |
| 250. <i>villosus</i> , Ait.  | 250. Com. or High Blackberry.    |
| <b>Rosa</b>  | <b>Rose.</b>                     |
| 251. <i>blanda</i> , Ait.  | 251. Early Wild R.               |
| <b>Crataegus</b>   | <b>Hawthorn. White Thorn.</b>    |
| 252. <i>coccinea</i> , L.  | 252. Scarlet-fruited Thorn.      |
| 253. <i>tomentosa</i> , L.   | 253. Black or Pear T.            |
| 254. var. <i>pyrifolia</i> , Gray.   | 254. " "                         |
| 255. var. <i>punctata</i> , Gray.  | 255. " "                         |
| 256. var. <i>mollis</i> , Gray.  | 256. " "                         |
| <b>Pyrus</b>   | <b>Pear. Apple.</b>              |
| 257. <i>coronaria</i> , L.   | 257. American Crab-Apple.        |
| <b>Amelanchier</b>   | <b>June-berry.</b>               |
| 258. <i>Canadensis</i> , T. & Gr., var. <i>Botryapium</i> , T. & Gr.             | 258. Service-berry. Shad-bush.   |
| 259. var. <i>oblongifolia</i> , T. & Gr.   | 259. " " "                       |
| 260. var. <i>alnifolia</i> , T. & Gr.  | 260. " " "                       |
| <b>SAXIFRAGACEÆ.</b>   |                                  |
| <b>Ribes</b>   | <b>SAXIFRAGE FAMILY.</b>         |
| 261. <i>Cynosbati</i> , L.   | <b>Gooseberry. Currant.</b>      |
| 262. <i>rotundifolium</i> , Michx.   | 261. Prickly Gooseberry.         |
| 263. <i>floridum</i> , L.  | 262. Smooth G.                   |
| <b>Hydrangea</b>   | 263. Wild Black Currant.         |
| 264. <i>arborescens</i> , L.*  | <b>Hydrangea.</b>                |
| <b>Parnassia</b>   | 264. Wild H.                     |
| 265. <i>Caroliniana</i> , Michx.   | <b>Grass of Parnassus.</b>       |
|  | 265. Grass of P.                 |

\*Lee County.

|   |                                  |
|---|----------------------------------|
| <b>Saxifraga</b>                                    | <b>Saxifrage.</b>                |
| 266. <i>Pennsylvanica</i> , L.                      | 266. Swamp S.                    |
| <b>Sullivantia</b>                                  | <b>Sullivantia.</b>              |
| 267. <i>Ohionis</i> , T. & Gr.*                     | 267. Sullivantia.                |
| <b>Heuchera</b>                                     | <b>Alum-root.</b>                |
| 268. <i>hispida</i> , Pursh.                        | 268. Alum-root.                  |
| <b>Mitella</b>                                      | <b>Mitre-wort. Bishop's-Cap.</b> |
| 269. <i>diphylla</i> , L.                           | 269. Mitre-wort.                 |
| <b>CRASSULACEÆ.</b>                                 |                                  |
| <b>Penthorum</b>                                    | <b>ORPINE FAMILY.</b>            |
| 270. <i>sedoides</i> , L.                           | Ditch Stone-crop.                |
| <b>HALORAGEÆ.</b>                                   |                                  |
| <b>Myriophyllum</b>                                 | 270. Ditch S.                    |
| 271. <i>spicatum</i> , L.                           | <b>WATER-MILFOIL FAMILY.</b>     |
| 272. <i>verticillatum</i> , L.                      | Water-Milfoil.                   |
| 273. <i>heterophyllum</i> , Michx.                  | 271. Water-Milfoil.              |
| <b>Proserpinaca</b>                                 | 272. " "                         |
| 274. <i>palustris</i> , L.                          | 273. " "                         |
| <b>ONAGRACEÆ.</b>                                   |                                  |
| <b>Ciræa</b>  | <b>Mermaid-weed.</b>             |
| 275. <i>Lutetiana</i> , L.                          | 274. Mermaid-weed.               |
| <b>Gaura</b>  | <b>EVENING-PRIMROSE FAMILY</b>   |
| 276. <i>biennis</i> , L.                            | <b>Enchanter's-Nightshade.</b>   |
| 277. <i>coccinea</i> , Nutt. ( <i>See App.</i> )    | 275. Common E.                   |
| <b>Epilobium</b>                                    | <b>Gaura.</b>                    |
| 278. <i>angustifolium</i> , L.                      | 276. Gaura.                      |
| 279. <i>palustre</i> , L. var. <i>lineare</i> , Gr. | 277. " "                         |
| 280. <i>coloratum</i> , Muhl.                       | <b>Willow-herb.</b>              |
| <b>Œnothera</b>                                     | 278. Great W.                    |
| 281. <i>biennis</i> , L.                            | 279. Willow-herb.                |
| 282. <i>rhombipetala</i> , Nutt.                    | 280. " "                         |
| 283. <i>fruticosa</i> , L.                          | <b>Evening-Primrose.</b>         |
| 284. <i>serrulata</i> , Nutt.                       | 281. Common E.                   |
| <b>Ludwigia</b>                                     | 282. Evening-Primrose.           |
| 285. <i>polycarpa</i> , Short & Peter.              | 283. Sundrops.                   |
| <b>LYTHRACEÆ.</b>                                   |                                  |
| <b>Lythrum</b>                                      | 284. Evening-primrose.           |
| 286. <i>alatum</i> , Pursh.                         | <b>False Loosestrife.</b>        |
| <b>Cuphea</b>                                       | 285. False L.                    |
| 287. <i>viscosissima</i> , Jacq.                    | <b>LOOSESTRIFE FAMILY.</b>       |
| <b>CACTACEÆ.</b>                                    |                                  |
| <b>Opuntia</b>                                      | <b>Loosestrife.</b>              |
| 288. <i>Rafinesquii</i> , Engel.                    | 286. Loosestrife.                |
| <b>CUCURBITACEÆ.</b>                                |                                  |
| <b>Sicyos</b>                                       | <b>Cuphea.</b>                   |
| 289. <i>angulatus</i> , L.                          | 287. Clammy C.                   |
| — — — — —   |                                  |
| <b>CACTUS FAMILY.</b>                               |                                  |
| <b>Prickly Pear. Indian Fig.</b>                    |                                  |
| 288. Prickly P.                                     |                                  |
| <b>GOURD FAMILY.</b>                                |                                  |
| <b>Star-Cucumber.</b>                               |                                  |
| 289. One-seeded S.                                  |                                  |

\**Fide* Prof. C. E. Bessey, Ames.

|   |  |
|---|--|
| Echinocystis                              | Balsam-apple.                              |
| 290. lobata, T. & Gr.                     | 290. Wild B.                               |
| <b>UMBELLIFERÆ.</b>                       |  |
| Sanicula                                  | PARSLEY FAMILY.                            |
| 291. Canadensis, L.                       | Sanicle. Black Snakeroot.                  |
| 292. Marilandica, L.                      | 291. Black Snakeroot.<br>292. " "          |
| Eryngium                                  | Eryngo.                                    |
| 293. yuccæfolium, Michx.                  | 293. Button Snakeroot.                     |
| Daucus                                    | Carrot.                                    |
| 294. Carota, L.                           | 294. Common Carrot.                        |
| Polytaenia                                | Polytaenia.                                |
| 295. Nuttallii, DC.                       | 295. Polytaenia.                           |
| Heracleum                                 | Cow-Parsnip.                               |
| 296. lanatum, Michx.                      | 296. Common C.                             |
| Peucedanum (?)                            | Peucedanum.                                |
| 297. nudicaule, Nutt. ( <i>See App.</i> ) | 297. Peucedanum.                           |
| Pastinaca                                 | Parsnip.                                   |
| 298. sativa, L.                           | 298. Common P.                             |
| Archemora                                 | Cowbane.                                   |
| 299. rigida, DC.                          | 299. Cowbane.                              |
| Conioselinum                              | Hemlock-Parsley.                           |
| 300. Canadense, T. & Gr.*                 | 300. Hemlock-P                             |
| Thaspium                                  | Meadow-Parsnip.                            |
| 301. barbinode, Nutt.                     | 301. Meadow-Parsnip.                       |
| 302. aureum, Nutt.                        | 302. " " "                                 |
| 303. trifoliatum, Gray.                   | 303. " " "                                 |
| Zizia                                     | Zizia.                                     |
| 304. integrifolia, DC.                    | 304. Zizia.                                |
| Cicuta                                    | Water-Hemlock.                             |
| 305. maculata, L.                         | 305. Spotted Cowbane. Beaver-Poison.       |
| Sium                                      | Water-Parsnip.                             |
| 306. lineare, Michx.                      | 306. Water-Parsnip.                        |
| Cryptotænia                               | Honewort.                                  |
| 307. Canadensis, DC.                      | 307. Honewort.                             |
| Chærophyllum                              | Chervil.                                   |
| 308. procumbens, Lam.                     | 308. Wild C.                               |
| Osmorrhiza                                | Sweet Cicely.                              |
| 309. longistylis, DC.                     | 309. Smoother Sweet C.                     |
| 310. brevistylis, DC.                     | 310. Hairy Sweet C.                        |
| Conium                                    | Poison Hemlock.                            |
| 311. maculatum, L.*                       | 311. Poison H.                             |
| <b>ARALIACEÆ.</b>                         |  |
| Aralia                                    | GINSENG FAMILY.                            |
| 312. racemosa, L.                         | Ginseng. Sarsaparilla.                     |
| 313. nudicaulis, L.                       | 312. Spikenard.<br>313. Wild Sarsaparilla. |
| 314. quinquefolia, Gray.                  | 314. Ginseng.                              |

\*Davenport.

**CORNACEÆ.**

- Cornus**  
 315. *sericea*, L.  
 316. *asperifolia*, Michx.  
 317. *paniculata*, L'Her.  
 318. *alternifolia*, L.

**CAPRIFOLIACEÆ.**

- Symporicarpus**  
 319. *occidentalis*, R. Br.  
 320. *vulgaris*, Michx.  
**Lonicera**  
 321. *flava*, Sims.  
 322. *parviflora*, Lam.  
 323. var. *Douglasii*, Gray.  
**Diervilla**  
 324. *trifida*, Moench.  
**Triosteum**  
 325. *perfoliatum*, L.  
**Adoxa**  
 326. *Moschatellina* L. (*See App.*)  
**Sambucus**  
 327. *Canadensis*, L.  
 328. *pubens*, Michx.  
**Viburnum**  
 329. *Lentago*, L.  
 330. *pubescens*, Pursh.  
 331. *Opulus*, L.

**RUBIACEÆ.**

- Galium**  
 332. *Aparine*, L.  
 333. *asperrimum*, Michx.  
 334. *concinnum*, T. & Gr.  
 335. *trifidum*, L.  
 336. var. *tinctorium*, Gray.  
 337. var. *latifolium*, Gray.  
 338. *triflorum*, Michx.  
 339. *boreale*, L.

- Cephalanthus**  
 340. *occidentalis*, L.

- Houstonia**  
 341. *angustifolia*, Michx.  
 342. *minima*, Beck.

**VALERIANACEÆ.**

- Valeriana**  
 343. *edulis*, Nutt.  
**Fedia**  
 344. *Fagopyrum*, T. & Gr.\*

**DOGWOOD FAMILY.**

- Cornel. Dogwood.**  
 315. Silky Cornel. Kinnikinnik.  
 316. Rough-leaved Dogwood.  
 317. White-fruited D.  
 318. Alternate-leaved D.

**HONEYSUCKLE FAMILY.**

- Snowberry.**  
 319. Wolf-berry.  
 320. Coral-berry.  
**Honeysuckle. Woodbine.**  
 321. Yellow H.  
 322. Small H.  
 323. Crimson H.  
**Bush-Honeysuckle.**  
 324. Bush-H.  
**Fever-wort. Horse-Gentian.**  
 325. Fever-wort.  
**Adoxa.**  
 326. Adoxa.  
**Elder.**  
 327. Common E.  
 328. Red-berried E.  
**Arrow-wood. Laurestinus.**  
 329. Sheep-berry.  
 330. Downy Arrow-wood.  
 331. Cranberry-tree.

**MADDER FAMILY.**

- Bedstraw. Cleavers.**  
 332. Cleavers. Goose-Grass.  
 333. Rough Bedstraw.  
 334. Small B.  
 335. "  
 336. "  
 337. "  
 338. Sweet-scented B.  
 339. Northern B.  
**Button-bush.**  
 340. Button-bush.  
**Houstonia.**  
 341. Houstonia.  
 342. "

**VALERIAN FAMILY.**

- Valerian.**  
 343. Valerian.  
**Corn Salad. Lamb-Lettuce.**  
 344. Corn Salad.

\*Lee County.

| COMPOSITÆ.  | COMPOSITE FAMILY.                      |
|---|--|
| <b>Vernonia</b>   | <b>Iron-weed.</b>                      |
| 345. <i>Noveboracensis</i> , Willd.                           | 345. Iron-weed.                        |
| 346. <i>fasciculata</i> , Michx.                              | 346. "                                 |
| <b>Liatris</b>  | <b>Blazing-Star. Button Snakeroot.</b> |
| 347. <i>squarrosa</i> , Willd.                                | 347. Blazing-Star.                     |
| 348. <i>cylindracea</i> , Michx.                              | 348. "                                 |
| 349. <i>punctata</i> , Hook. ( <i>See App.</i> )              | 349. "                                 |
| 350. <i>scariosa</i> , Willd.                                 | 350. "                                 |
| 351. <i>pycnostachya</i> , Michx.                             | 351. "                                 |
| <b>Kuhnia</b>   | <b>Kuhnia.</b>                         |
| 352. <i>eupatorioides</i> , L.                                | 352. Kuhnia.                           |
| <b>Eupatorium</b>   | <b>Thoroughwort.</b>                   |
| 353. <i>purpureum</i> , L.                                    | 353. Joe-Pye Weed.                     |
| 354. <i>perfoliatum</i> , L.                                  | 354. Boneset. Thoroughwort.            |
| 355. <i>serotinum</i> , Michx.                                | 355. Thoroughwort.                     |
| 356. <i>ageratoides</i> , L.                                  | 356. White Snakeroot.                  |
| <b>Conoclinium</b>  | <b>Mist-flower.</b>                    |
| 357. <i>celestinum</i> , DC.*                                 | 357. Mist-flower.                      |
| <b>Aster</b>  | <b>Aster.</b>                          |
| 358. <i>sericeus</i> , Vent.                                  | 358. Aster.                            |
| 359. <i>patens</i> , Ait.                                     | 359. "                                 |
| 360. <i>lævis</i> , L., var. <i>lævigatus</i> , Gr.           | 360. "                                 |
| 361. var. <i>cyanus</i> , Gray.                               | 361. "                                 |
| 362. <i>azureus</i> , Lindl.                                  | 362. "                                 |
| 363. <i>undulatus</i> , L.                                    | 363. "                                 |
| 364. <i>cordifolius</i> , L.                                  | 364. "                                 |
| 365. <i>sagittifolius</i> , Willd., var.<br>Drummondii, Gray. | 365. "                                 |
| 366. <i>multiflorus</i> , Ait.                                | 366. "                                 |
| 367. <i>Tradescantii</i> , L.                                 | 367. "                                 |
| 368. <i>miser</i> , L., Ait.†                                 | 368. "                                 |
| 369. <i>simplex</i> , Willd.                                  | 369. "                                 |
| 370. <i>carneus</i> , Nees.                                   | 370. "                                 |
| 371. <i>Novi-Belgii</i> , L.                                  | 371. "                                 |
| 372. <i>puniceus</i> , L.                                     | 372. "                                 |
| 373. <i>prenanthesoides</i> , Muhl.                           | 373. "                                 |
| 374. <i>oblongifolius</i> , Nutt.                             | 374. "                                 |
| 375. <i>Novæ-Angliae</i> , L.                                 | 375. "                                 |
| 376. var. <i>roseus</i> , Gray.                               | 376. "                                 |
| 377. <i>ptarmicoides</i> , T. & Gr.                           | 377. "                                 |
| <b>Erigeron</b>   | <b>Fleabane.</b>                       |
| 378. <i>Canadense</i> , L.                                    | 378. Horse-weed. Butter-weed.          |
| 379. <i>divaricatum</i> , Michx.                              | 379. Dwarf Fleabane.                   |
| 380. <i>bellidifolium</i> , Muhl.                             | 380. Robin's Plantain.                 |
| 381. <i>Philadelphicum</i> , L.                               | 381. Common Fleabane.                  |
| 382. <i>annuum</i> , Pers.                                    | 382. Daisy F. Sweet Scabious.          |
| 383. <i>strigosum</i> , Muhl.                                 | 383. Daisy F.                          |
| <b>Diplopappus</b>  | <b>Double-bristled Aster.</b>          |
| 384. <i>umbellatus</i> , T. & Gr.                             | 384. Double-bristled A.                |
| <b>Boltonia</b>   | <b>Boltonia.</b>                       |
| 385. <i>glastifolia</i> , L'Her.                              | 385. Boltonia.                         |

\*Lee County.

†Dubuque.

**Solidago**

386. *bicolor*, L., var. *concolor*,  
Gray.  
 387. *latifolia*, L.  
 388. *speciosa*, Nutt.  
 389. var. *angustata*, Gray.  
 390. *rigida*, L.  
 391. *Riddellii*, Frank.  
 392. *altissima*, L.  
 393. *ulmifolia*, Muhl.  
 394. *nemoralis*, Ait.  
 395. *Missouriensis*, Nutt.  
 396. *Canadensis*, L.  
 397. *serotina*, Ait.  
 398. *gigantea*, Ait.  
 399. *lanceolata*, L.

**Golden-rod.**

386. Golden-rod.  
 387. "  
 388. "  
 389. "  
 390. "  
 391. "  
 392. "  
 393. "  
 394. "  
 395. "  
 396. "  
 397. "  
 398. "  
 399. "

**Aplopappus**

400. *spinulosus*, DC. (*See App*)

**Aplopappus.**

400. Aplopappus.

**Grindelia**

401. *squarrosa*, Dunal. (*See App*)

**Grindelia.**

401. Grindelia.

**Polymnia**

402. *Canadensis*, L.

**Leaf-Cup.**

402. Leaf-Cup.

**Silphium**

403. *laciniatum*, L.  
 404. *terebinthinaceum*, L.  
 405. *integrifolium*, Michx.  
 406. *perfoliatum*, L.

**Rosin-Plant.**

403. Compass-Plant.  
 404. Prairie Dock.  
 405. Rosin-Plant.  
 406. Cup-Plant.

**Parthenium**

407. *integrifolium*, L.

**Parthenium.**

407. Parthenium.

**Cyclachæna**

408. *xanthiifolia*, Fres. (*See App*)

**Cyclachæna.**

408. Cyclachæna.

**Iva**

409. *xanthiifolia*, Nutt.

**Marsh Elder.**

409. ——

**Ambrosia**

410. *trifida*, L.  
 411. var. *integrifolia*, Gray.  
 412. *artemisiæfolia*, L.  
 413. *psilostachya*, DC.

**Ragweed.**

410. Great R.  
 411. Smaller R.  
 412. Roman Wormwood.  
 413. Western Ragweed.

**Xanthium**

414. *strumarium*, L.  
 415. var. *echinatum*, Gray.

**Clotbur. Cocklebur.**

414. Common Cocklebur.  
 415. " "

**Eclipta**

416. *procumbens*, Michx.\*

**Eclipta.**

416. Eclipta.

**Heliopsis**

417. *lævis*, Pers., var. *scabra*, Gr.

**Ox-eye.**

417. Ox-eye.

**Echinacea**

418. *purpurea*, Moench.  
 419. *angustifolia*, DC.

**Purple Cone-flower.**

418. Purple C.  
 419. "

\*Lee County.

|   |                             |
|---|-----------------------------|
| <b>Rudbeckia</b>                                      | <b>Cone-flower.</b>         |
| 420. <i>laciniata</i> , L.                            | 420. Cone-flower.           |
| 421. <i>subtomentosa</i> , Pursh.                     | 421. "                      |
| 422. <i>triloba</i> , L.                              | 422. "                      |
| 423. <i>hirta</i> , L.                                | 423. "                      |
| <b>Lepachys</b>                                       | <b>Cone-flower.</b>         |
| 424. <i>pinnata</i> , T. & Gr.                        | 424. Cone-flower.           |
| <b>Helianthus</b>                                     | <b>Sunflower.</b>           |
| 425. <i>annuus</i> , L.                               | 425. Common S.              |
| 426. <i>lenticularis</i> , Dougl. ( <i>See App.</i> ) | 426. Wild S.                |
| 427. <i>rigidus</i> , Desf.                           | 427. Sunflower.             |
| 428. <i>laetiflorus</i> , Pers.                       | 428. "                      |
| 429. <i>mollis</i> , Lam.                             | 429. "                      |
| 430. <i>grosse-serratus</i> , Mart.                   | 430. "                      |
| 431. <i>strumosus</i> , L.                            | 431. "                      |
| 432. <i>hirsutus</i> , Raf.                           | 432. "                      |
| 433. <i>tracheliiifolius</i> , Willd.                 | 433. "                      |
| 434. <i>doronicoides</i> , Lam.                       | 434. "                      |
| <b>Actinomeris</b>                                    | <b>Actinomeris.</b>         |
| 435. <i>squarrosa</i> , Nutt.                         | 435. Actinomeris.           |
| <b>Coreopsis</b>                                      | <b>Tickseed.</b>            |
| 436. <i>palmata</i> , Nutt.                           | 436. Tickseed.              |
| 437. <i>tripteris</i> , L.                            | 437. "                      |
| 438. <i>aristosa</i> , Michx.                         | 438. "                      |
| <b>Bidens</b>   | <b>Bur-Marigold.</b>        |
| 439. <i>frondosa</i> , L.                             | 439. Common Beggar-ticks.   |
| 440. <i>connata</i> , Muhl.                           | 440. Swamp B.               |
| 441. var. <i>petiolata</i> .                          | 441. "                      |
| 442. var. <i>comosa</i> , Gray.                       | 442. "                      |
| 443. <i>cernua</i> , L.                               | 443. Smaller Bur-Marigold.  |
| 444. <i>chrysanthemoides</i> , Michx.                 | 444. Larger B.              |
| 445. <i>Beckii</i> , Torr.                            | 445. Water Marigold.        |
| <b>Dysodia</b>  | <b>Fetid Marigold.</b>      |
| 446. <i>chrysanthemoides</i> , Lag.                   | 446. Fetid M.               |
| <b>Helenium</b>                                       | <b>Sneeze-weed.</b>         |
| 447. <i>autumnale</i> , L.                            | 447. Sneeze-weed.           |
| <b>Leptopoda</b>                                      | <b>Leptopoda.</b>           |
| 448. <i>brachypoda</i> , T. & Gr.*                    | 448. Leptopoda.             |
| <b>Maruta</b>   | <b>May-weed.</b>            |
| 449. <i>Cotula</i> , DC.                              | 449. Common M.              |
| <b>Anthemis</b>                                       | <b>Chamomile.</b>           |
| 450. <i>arvensis</i> , L.                             | 450. Corn C.                |
| <b>Achillea</b>                                       | <b>Yarrow.</b>              |
| 451. <i>Millefolium</i> , L.                          | 451. Milfoil. Common Y.     |
| <b>Leucanthemum</b>                                   | <b>Ox-eye Daisy.</b>        |
| 452. <i>vulgare</i> , Lam.                            | 452. Ox-eye or White Daisy. |
| <b>Tanacetum</b>                                      | <b>Tansy.</b>               |
| 453. <i>vulgare</i> , L.                              | 453. Common T.              |

\*Indianola.

**Artemisia**

454. *dracunculoides*, Pursh.  
455. *caudata*, Michx.  
456. *Ludoviciana*, Nutt.  
457. var. *gnaphalodes*, Gray.  
458. *biennis*, Willd.  
459. *Absinthium*, L.

**Gnaphalium**

460. *polycephalum*, Michx.

**Antennaria**

461. *margaritacea*, R. Br.\*  
462. *plantaginifolia*, Hook.

**Erechtites**

463. *hieracifolia*, Raf.

**Cacalia**

464. *suaveolens*, L.\*  
465. *reniformis*, Muhl.  
466. *atricipicifolia*, L.†  
467. *tuberosa*, Nutt.

**Senecio**

468. *aureus*, L.  
469. var. *Balsamitæ*, Gray.

**Centaurea**

470. *Cyanus*, L.  
471. *Americana*, Nutt. (*See App*)

**Cnicus** (*Cirsium*, *Gray's Man. See App*)

472. *discolor*, Muhl.  
473. *altissimus*, Willd.  
474. *muticus*, Pursh.  
475. *pumilus*, Torr.  
476. *arvensis*, Hoffm.

**Lappa**

477. *officinalis*, All., var. *major*,  
Gray.

**Cichorium**

478. *Intybus*, L.

**Cynthia**

479. *Virginica*, Don.

**Troximon**

480. *cuspidatum*, Pursh.

**Hieracium**

481. *Canadense*, Michx.  
482. *scabrum*, Michx.  
483. *longipilum*, Torr.  
484. *venosum*, L.

**Nabalus**

485. *albus*, Hook.  
486. *racemosus*, Hook.  
487. *asper*, Torr. & Gr.

**Wormwood.**

454. Wormwood.  
455. "  
456. Western Mugwort.  
457. "  
458. Biennial Wormwood.  
459. Common W.

**Cudweed.**

460. Common Everlasting.

**Everlasting.**

461. Pearly Everlasting.  
462. Plantain-leaved E.

**Fireweed.**

463. Fireweed.

**Indian Plantain.**

464. Indian Plantain.  
465. Great Indian P.  
466. Pale Indian P.  
467. Tuberous Indian P.

**Groundsel.**

468. Golden Ragwort.  
469. "

**Star-Thistle.**

470. Bluebottle.  
471. Bachelor's-Button.

**Thistle.**

472. Common T.  
473. "  
474. Swamp T.  
475. Pasture T.  
476. Canada T.

**Burdock.**

477. Common B.

**Succory or Cichory.**

478. Common C.

**Cynthia.**

479. Cynthia.

**Troximon.**

480. Troximon.

**Hawkweed.**

481. Canada H.  
482. Rough H.  
483. Long-bearded H.  
484. Rattlesnake-weed.

**Rattlesnake-root.**

485. White Lettuce.  
486. Rattlesnake-root.  
487. "

**Lygodesmia**488. *juncea*, Don.**Crepis**489. *runcinata*, T. & Gr. (*See App.*)**Taraxacum**490. *Dens-leonis*, Desf.**Lactuca**491. *Canadensis*, L.492. " *sanguinea*, T. & Gr.493. *Ludoviciana*, DC. (*See App.*)**Mulgodium**494. *Floridanum*, DC.495. *leucophyllum*, DC.**Sonchus**496. *asper*, Vill.**LOBELIACEÆ.****Lobelia**497. *cardinalis*, L.498. *syphilitica*, L.499. *puberula*, Michx.\*500. *inflata*, L.501. *spicata*, Lam.**CAMPANULACEÆ.****Campanula**502. *rotundifolia*, L.503. " *linifolia*, Gray.504. *aparinoides*, Pursh.505. *Americana*, L.**Specularia**506. *perfoliata*, A. DC.**ERICACEÆ.****Vaccinium**507. *vacillans*, Solander.**Pyrola**508. *elliptica*, Nutt.**Monotropa**509. *uniflora*, L.**EBENACEÆ.****Diospyros**510. *Virginiana*, L.†**PLANTAGINACEÆ.****Plantago**511. *major*, L.512. *lanceolata*, L.

\*Davenport.

**Lygodesmia**

488. Lygodesmia.

**Crepis**

489. Crepis.

**Dandelion**

490. Common D.

**Lettuce**

491. Wild L.

492. " "

493. " "

**False or Blue Lettuce**

494. Blue Lettuce.

495. " "

**Sow-Thistle**

496. Spiny-leaved S.

**LOBELIA FAMILY.****Lobelia**

497. Cardinal-flower.

498. Great Lobelia.

499. Lobelia.

500. Indian Tobacco.

501. Lobelia.

**BELLFLOWER FAMILY.****Bellflower**

502. Harebell.

503. " "

504. Marsh Bellflower.

505. Tall B.

**Venus's Looking-glass**

506. Venus's L.

**HEATH FAMILY.****Cranberry. Blueberry.**

507. Low Blueberry.

**Shin-leaf. Wintergreen.**

508. Shin-leaf.

**Indian Pipe.**

509. Indian P.

**EBONY FAMILY.****Date-Plum. Persimmon.**

510. Common Persimmon.

**PLANTAIN FAMILY.****Plantain. Ribgrass.**

511. Common Plantain.

512. Ribgrass. English P.

†Fide Prof. Bessey, Ames.

**PRIMULACEÆ.****Androsace**513. *occidentalis*, Pursh.**Dodecatheon**514. *Meadia*, L.**Lysimachia**515. *thyrsiflora*, L.516. *stricta*, Ait.517. *ciliata*, L.518. *lanceolata*, Walt.519. *longifolia*, Pursh.**LENTIBULACEÆ.****Utricularia**520. *vulgaris*, L., var. *Americana*, Gray.521. *cornuta*, Michx.**BIGNONIACEÆ.****Martynia**522. *proboscidea*, Gloc.**OROBANCHACEÆ.****Aphyllon**523. *fasciculatum*, T. & Gr.**SCROPHULARIACEÆ.****Verbascum**524. *Thapsus*, L.525. *Blattaria*, L.**Linaria**526. *vulgaris*, Miller.**Seropularia**527. *nodosa*, L.**Chelone**528. *glabra*, L.**Pentstemon**529. *pubescens*, Solander.530. *Digitalis*, Nutt.531. *grandiflorus*, Fraser.**Mimulus**532. *ringens*, L.533. *Jamesii*, Torr.**Herpestis**534. *rotundifolia*, Pursh.\***Gratiola**535. *Virginiana*, L.**Ilysanthes**536. *gratioloides*, Benth.**Synthyris**537. *Houghtoniana*, Benth.

\*Davenport.

**PRIMROSE FAMILY.****Androcace.**

513. Androsace.

**American Cowslip.**

514. Shooting-Star. Am. C.

**Loosestrife.**

515. Tufted L.

516. Loosestrife.

517. "

518. "

519. "

**BLADDERWORT FAMILY.****Bladderwort.**

520. Greater B.

521. Bladderwort.

**BIGNONIA FAMILY.****Unicorn-plant.**

522. Common Martynia.

**BROOM-RAPE FAMILY.****Naked Broom-rape.**

523. Naked B.

**FIGWORT FAMILY.****Mullein.**

524. Common M.

525. Moth M.

**Toad-Flax.**

526. Butter-and-eggs. Toad-Flax

**Figwort.**

527. Figwort.

**Turtle-head. Snake-head.**

528. Turtle-head. Balmony.

**Beard-tongue. Pentstemon.**

529. Pentstemon.

530. "

531. "

**Monkey-flower.**

532. Monkey flower.

533. "

**Herpestis.**

534. Herpestis.

**Hedge-Hyssop.**

535. Hedge-H.

**False Pimpernel.**

536. False P.

**Synthyris.**

537. Synthyris.

**Veronica**

538. Virginica, L.  
539. Anagallis, L.  
540. peregrina, L.

**Seymeria**

541. macrophylla, Nutt.

**Gerardia**

542. purpurea, L.  
543. aspera, Dougl.  
544. tenuifolia, Vahl.  
545. setacea, Walt.  
546. grandiflora, Benth.  
547. auriculata, Michx.

**Castilleja**

548. coccinea, Spreng.  
549. sessiliflora, Pursh.

**Pedicularis**

550. Canadensis, L.  
551. lanceolata, Michx.

**Melampyrum**

552. Americanum, Michx.\*

**ACANTHACEÆ.****Ruellia**

553. ciliosa, Pursh.  
554. strepens, L.

**VERBENACEÆ.****Verbena**

555. angustifolia, Michx.  
556. hastata, L.  
557. urticifolia, L.  
558. stricta, Vent.  
559. bracteosa, Michx.

**Lippia**

560. lanceolata, Michx.

**Phryma**

561. Leptostachya, L.

**LABIATÆ.****Teucrium**

562. Canadense, L.

**Trichostema**

563. dichotomum, L.

**Isanthus**

564. cæruleus, Michx.

**Mentha**

565. viridis, L.\*  
766. piperita, L.\*  
567. Canadensis, L.  
568. var. glabrata, Benth.

**Speedwell.**

538. Culver's Physic.  
539. Water Speedwell.  
540. Neckweed. Purslane S.

**Seymeria.**

541. Mullein-Foxglove.

**Gerardia.**

542. Purple G.  
543. "  
544. Slender G.  
545. "  
546. Gerardia.  
547. "

**Painted-Cup.**

548. Scarlet P.  
549. Dwarf P.

**Lousewort.**

550. Common L.  
551. Lousewort.

**Cow-Wheat.**

552. Cow-W.

**ACANTHUS FAMILY.****Ruellia.**

553. Ruellia.  
554. "

**VERVAIN FAMILY.****Vervain. Verbena.**

555. Vervain.  
556. Blue V.  
657. Nettle-leaved or White V.  
558. Hoary V.  
559. Prostrate V.

**Lippia.**

560. Fog-fruit.

**Lopseed.**

561. Lopseed.

**MINT FAMILY.****Germanander.**

562. American G. Wood Sage.

**Blue Curls.**

563. Bastard Pennyroyal.

**False Pennyroyal.**

564. False P.

**Mint.**

565. Spearmint.  
566. Peppermint.  
567. Wild Mint.  
568. " "

|  |                                  |
|--|----------------------------------|
| <b>Lycopus</b>   | <b>Water Horehound.</b>          |
| 569. <i>Virginicus</i> , L.  | 569. Bugle-weed.                 |
| 570. <i>rubellus</i> , Mœnch. ( <i>See App.</i> )                                | 570. Water H.                    |
| 571. <i>lucidus</i> , Turcz., var. <i>Americanus</i> , Gray. ( <i>See App.</i> ) | 571. "                           |
| 572. <i>sinuatus</i> , Ell. ( <i>See App.</i> )                                  | 572. "                           |
| <b>Pyranthemum</b>   | <b>Mountain Mint. Basil.</b>     |
| 573. <i>pilosum</i> , Nutt.  | 573. Mountain Mint.              |
| 574. <i>lanceolatum</i> , Pursh.   | 574. " "                         |
| 575. <i>linifolium</i> , Pursh.  | 575. " "                         |
| <b>Hedeoma</b>   | <b>Mock Pennyroyal.</b>          |
| 576. <i>pulegioides</i> , Pers.  | 576. American Pennyroyal.        |
| 577. <i>hispida</i> , Pursh.   | 577. Mock P.                     |
| <b>Salvia</b>  | <b>Sage.</b>                     |
| 578. <i>lanceolata</i> , Willd. ( <i>See App.</i> )                              | 578. Wild Sage.                  |
| <b>Monarda</b>   | <b>Horse-Mint.</b>               |
| 579. <i>fistulosa</i> , L.   | 579. Wild Bergamot.              |
| <b>Blephilia</b>   | <b>Blephilia.</b>                |
| 580. <i>hirsuta</i> , Benth.   | 580. Blephilia.                  |
| <b>Lophanthus</b>  | <b>Giant Hyssop.</b>             |
| 581. <i>nepetoides</i> , Benth.*   | 581. Giant H.                    |
| 582. <i>scrophulariifolius</i> , Benth.  | 582. "                           |
| 583. <i>anisatus</i> , Benth.  | 583. "                           |
| <b>Nepeta</b>  | <b>Cat-Mint.</b>                 |
| 584. <i>Cataria</i> , L.   | 584. Catnip.                     |
| 585. <i>Glechoma</i> , Benth.†   | 585. Gill. Ground Ivy.           |
| <b>Dracocephalum</b>   | <b>Dragon-Head.</b>              |
| 586. <i>parviflorum</i> , Nutt.  | 586. Dragon-H.                   |
| <b>Physostegia</b>   | <b>False Dragon-Head.</b>        |
| 587. <i>Virginiana</i> , Benth.  | 587. False D.                    |
| <b>Brunella</b>  | <b>Self-heal.</b>                |
| 588. <i>vulgaris</i> , L.  | 588. Com. Self-heal or Heal-all. |
| <b>Scutellaria</b>   | <b>Skullcap.</b>                 |
| 589. <i>versicolor</i> , Nutt.   | 589. Skullcap.                   |
| 590. <i>parvula</i> , Michx.   | 590. "                           |
| 591. <i>galericulata</i> , L.  | 591. "                           |
| 592. <i>lateriflora</i> , L.   | 592. Mad-dog S.                  |
| <b>Galeopsis</b>   | <b>Hemp-Nettle.</b>              |
| 593. <i>Tetrahit</i> , L.  | 593. Common H.                   |
| <b>Stachys</b>   | <b>Hedge-Nettle.</b>             |
| 594. <i>palustris</i> , L. var. <i>aspera</i> , Gr.                              | 594. Hedge N.                    |
| 595. var. <i>glabra</i> , Gray.  | 595. "                           |
| 596. var. <i>cordata</i> , Gray.   | 596. "                           |
| <b>Leonurus</b>  | <b>Motherwort.</b>               |
| 597. <i>Cardiacia</i> , L.   | 597. Common M.                   |
| <b>BORRAGINACE.E.</b>  | <b>BORAGE FAMILY.</b>            |
| <b>Echium</b>  | <b>Viper's Bugloss.</b>          |
| 598. <i>vulgaris</i> , L.  | 598. Blue-weed.                  |

\*Davenport.

†Indianola.

- Onosmodium**
- 599. *Carolinianum*, DC.
  - 600. *molle*, Michx.
- Lithospermum**
- 601. *angustifolium*, Michx.
  - 602. *latifolium*, Michx.
  - 603. *hirtum*, Lehm.
  - 604. *canescens*, Lehm.
  - 605. *longiflorum*, Spreng.
- Mertensia**
- 606. *Virginica*, DC.
- Echinopspermum**
- 607. *Lappula*, Lehm.
- Cynoglossum**
- 608. *officinale*, L.
  - 609. *Morisoni*, DC.
- HYDROPHYLLACEÆ.**
- Hydrophyllum**
- 610. *Virginicum*, L.
  - 611. *appendiculatum*, Michx.
- Ellisia**
- 612. *Nyctelea*, L. (*See App.*)
- POLEMONIACEÆ.**
- Polemonium**
- 613. *reptans*, L.
- Phlox**
- 614. *maculata*, L.
  - 615. *pilosa*, L.
  - 616. *divaricata*, L., var. *Lap-*  
*hamii*, Wood.
- CONVOLVULACEÆ.**
- Ipomoea**
- 617. *purpurea*, Lam.
- Catystegia**
- 618. *sepium*, R. Br.
  - 619. *siphamea*, Pursh.
- Cuscuta**
- 620. *Gronovii*, Willd.
  - 621. *glomerata*, Choisy.
- SOLANACEÆ.**
- Solanum**
- 622. *Dulcamara*, L.
  - 623. *nigrum*, L.
  - 624. *Carolinense*, L.
- Physalis (*See App.*)**
- 625. *Philadelphica*, Lam.
  - 626. *Virginica*, Mill. (*P. viscosa* Gray's Man., not of L.)
  - 627. *lanceolata*, Michx. (*P. Penn-sylvanica* Gray's Man. in part, not of L.)
- False Gromwell.**
- 599. False G.
  - 600. "
- Gromwell. Puccoon.**
- 601. Gromwell.
  - 602. "
  - 603. Hairy Puccoon.
  - 604. Alkanet. Hoary P.
  - 605. Puccoon.
- Smooth Lungwort.**
- 606. Virginian Cowslip or L.
- Stickseed.**
- 607. Common S.
- Hound's-Tongue.**
- 608. Common H.
  - 609. Beggar's-Lice.
- WATERLEAF FAMILY.**
- Waterleaf.**
- 610. Waterleaf.
  - 611. "
- Ellisia.**
- 612. Ellisia.
- POLEMONIUM FAMILY.**
- Greek Valerian.**
- 613. Polemonium.
- Phlox.**
- 614. Wild Sweet-William.
  - 615. Wild Phlox.
  - 616. " "
- CONVOLVULUS FAMILY.**
- Morning-Glory.**
- 617. Common M.
- Bracted Bindweed.**
- 618. Hedge Bindweed.
  - 619. Bracted B.
- Dodder.**
- 620. Dodder.
  - 621. "
- NIGHTSHADE FAMILY.**
- Nightshade.**
- 622. Bittersweet.
  - 623. Common Nightshade.
  - 624. Horse-Nettle.
- Ground Cherry.**
- 625. Ground C.
  - 626. "
  - 627. "

|  |      |                                     |
|--|------|-------------------------------------|
| <b>Datura</b>  |      | <b>Jamestown-Weed. Thorn-Apple.</b> |
| 628. <i>Stramonium</i> , L.  |      | 628. Common Stramonium.             |
|  |      | <b>GENTIANACEÆ.</b>                 |
| <b>Gentiana</b>  |      | <b>Gentian.</b>                     |
| 629. <i>quinqueflora</i> , Lam., var.<br>occidentalis, Gray.           | 629. | Five-flowered Gentian.              |
| 630. <i>crinita</i> , Froel.   | 630. | Fringed G.                          |
| 631. <i>detonsa</i> , Fries.   | 631. | Smaller Fringed G.                  |
| 632. <i>alba</i> , Muhl.   | 632. | Whitish G.                          |
| 633. <i>Andrewsii</i> , Griseb.  | 633. | Closed G.                           |
| 634. <i>Saponaria</i> , L.   | 634. | Soapwort G.                         |
| 635. <i>puberula</i> , Michx.  | 635. | Gentian.                            |
| <b>Menyanthes</b>  |      | <b>Buckbean.</b>                    |
| 636. <i>trifoliata</i> , L.  | 636. | Buckbean.                           |
|  |      | <b>DOGbane FAMILY.</b>              |
| <b>Apocynum</b>  |      | <b>Dogbane. Indian Hemp.</b>        |
| 637. <i>androsæmifolium</i> , L.                                       | 637. | Spreading Dogbane.                  |
| 638. <i>cannabinum</i> , L., var. <i>gla-</i><br><i>berrimum</i> , DC. | 638. | Indian Hemp.                        |
| 639. var. <i>hypericifolium</i> , Gr.                                  | 639. | " "                                 |
|  |      | <b>MILKWEED FAMILY.</b>             |
| <b>Asclepias</b>   |      | <b>Milkweed. Silkweed.</b>          |
| 640. <i>Cornuti</i> , Decaisne.  | 640. | Common Milkweed.                    |
| 641. <i>Sullivantii</i> , Engelm.                                      | 641. | Milkweed.                           |
| 642. <i>phytolaccoides</i> , Pursh.                                    | 642. | Poke-M.                             |
| 643. <i>purpurascens</i> , L.  | 643. | Purple M.                           |
| 644. <i>ovalifolia</i> , Decaisne.                                     | 644. | Dwarf M.                            |
| 645. <i>incarnata</i> , L.   | 645. | Swamp M.                            |
| 646. <i>obtusifolia</i> , Michx.                                       | 646. | Milkweed.                           |
| 647. <i>Meadii</i> , Torr.   | 647. | "                                   |
| 648. <i>tuberosa</i> , L.  | 648. | Butterfly-weed.                     |
| 649. <i>verticillata</i> , L.  | 649. | Whorled Milkweed.                   |
| <b>Acerates</b>  |      | <b>Green Milkweed.</b>              |
| 650. <i>viridiflora</i> , Ell.   | 650. | Green M.                            |
| 651. <i>longifolia</i> , Ell.  | 651. | "                                   |
|  |      | <b>OLIVE FAMILY.</b>                |
| <b>OLEACEÆ.</b>  |      | <b>Ash.</b>                         |
| <b>Fraxinus</b>  |      |                                     |
| 652. <i>Americana</i> , L.   | 652. | White Ash.                          |
| 653. <i>viridis</i> , Michx. f.  | 653. | Green A.                            |
| 654. <i>sambucifolia</i> , Lam.  | 654. | Black or Water A.                   |
| 655. <i>quadrangulata</i> , Michx.                                     | 655. | Blue A.                             |
|  |      | <b>BIRTHWORT FAMILY.</b>            |
| <b>ARISTOLOCHIACEÆ.</b>  |      | <b>Wild Ginger. Asarabacea.</b>     |
| <b>Asarum</b>  |      | 656. Wild G.                        |
| 656. <i>Canadense</i> , L.   |      |                                     |
|  |      | <b>FOUR-O'CLOCK FAMILY.</b>         |
| <b>NYCTAGINACEÆ.</b>   |      | <b>Oxybaphus.</b>                   |
| <b>Oxybaphus</b>   |      |                                     |
| 657. <i>nyctagineus</i> , Sweet.                                       | 657. | Oxybaphus.                          |
| 658. <i>angustifolius</i> , Sweet. ( <i>See</i><br><i>App.</i> )       | 658. | "                                   |
| 659. <i>albidus</i> , Sweet. ( <i>See App.</i> )                       | 659. | "                                   |

**PHYTOLACCACEÆ.****Phytolacea**660. *decandra*, L.**CHENOPODIACEÆ.****Chenopodium**661. *album*, L.662. *Boscianum*, Moq. (*See App*)663. *hybridum*, L.664. *Botrys*, L.665. *ambrosioides*, L.**AMARANTACEÆ.****Amaranthus**666. *retroflexus*, L.667. *albus*, L.668. *Blitum*, L. (*See App.*)**POLYGONACEÆ.****Polygonum**671. *orientale*, L.672. *Pennsylvanicum*, L.673. *incarnatum*, Ell.674. *Persicaria*, L.675. *Hydropiper*, L.676. *acre*, H. B. K.677. *amphibium*, L., var. *aquaticum*, Willd.678. var. *terrestris*, Willd.679. *Hartwrightii*, Gr. (*See App*)680. *Virginianum*, L.681. *aviculare*, L.682. var. *erectum*, Roth.683. *ramosissimum*, Michx.684. *sagittatum*, L.685. *Convolvulus*, L.686. *dumetorum*, L.**Fagopyrum**687. *esculentum*, Mœnch.**Rumex**688. *orbiculatus*, Gray.689. *Britannica*, L.690. *verticillatus*, L.691. *crispus*, L.692. *maritimus*, L.693. *Acetosella*, L.**LAURACEÆ.****Sassafras**694. *officinale*, Nees.**THYMELEACEÆ.****Direa**695. *palustris*, L.**POKEWEED FAMILY.****Pokeweed.**

660. Com. Poke. Scoke. Garget.

**GOOSEFOOT FAMILY.****Pigweed. Goosefoot.**

661. Lamb's-Quarters. Pigweed.

662. Slender Pigweed.

663. Maple-leaved Goosefoot.

664. Jerusalem Oak.

665. Mexican Tea.

**AMARANTH FAMILY.****Amaranth.**

666. Pigweed. Green A.

667. Tumble-weed.

668. Amaranth.

**Montelia.**

669. Montelia.

670. "

**BUCKWHEAT FAMILY.****Knotweed.**

671. Prince's Feather.

672. Smartweed.

673. "

674. Lady's Thumb.

675. Common Smartweed.

676. Water Smartweed.

677. Water Persicaria.

678. " " "

679. Persicaria.

680. ——

681. Knotgrass. Door-weed.

682. " " "

683. Knotweed.

684. Arrow-leaved Tear-thumb.

685. Black Bindweed.

686. Climbing False Buckwheat.

**Buckwheat.**

687. Common B.

**Dock. Sorrel.**

688. Great Water-Dock.

689. Pale Dock.

690. Swamp D.

691. Curled D.

692. Golden D.

693. Field or Sheep Sorrel.

**LAUREL FAMILY.****Sassafras.**

694. Sassafras.

**MEZEREUM FAMILY.****Leatherwood. Moosewood.**

695. Leatherwood.

|  |                                |
|--|--------------------------------|
| SANTALACEÆ.                                      | SANDALWOOD FAMILY.             |
| Comandra   | Bastard Toad-flax.             |
| 696. <i>umbellata</i> , Nutt.                    | 696. Bastard T.                |
| CALLITRICHACEÆ.                                  | WATER-STARWORT FAMILY.         |
| Callitrichæ                                      | Water-Starwort.                |
| 697. <i>verna</i> , L.                           | 697. Water-S.                  |
| EUPHORBIACEÆ.                                    | SPURGE FAMILY.                 |
| Euphorbia  | Spurge.                        |
| 698. <i>petaloidea</i> , Engelm.                 | 698. Spurge.                   |
| 699. <i>serpens</i> , H. B. K.                   | 699. "                         |
| 700. <i>serpyllifolia</i> , Pers.                | 700. "                         |
| 701. <i>glyptosperma</i> , Engelm.               | 701. "                         |
| 702. <i>maculata</i> , L.                        | 702. "                         |
| 703. <i>hexagona</i> , Nutt. ( <i>See App.</i> ) | 703. "                         |
| 704. <i>hypericifolia</i> , L.                   | 704. "                         |
| 705. <i>marginata</i> , Pursh.                   | 705. "                         |
| 706. <i>corollata</i> , L.                       | 706. "                         |
| 707. <i>dentata</i> , Michx.                     | 707. "                         |
| 708. <i>heterophylla</i> , L.                    | 708. "                         |
| 709. <i>dictyosperma</i> , F. & M.               | 709. "                         |
| 710. <i>Cyparissias</i> , L.                     | 710. "                         |
| Acalypha   | TRE, e-seeded Mercury.         |
| 711. <i>Virginica</i> , L.                       | 711. Three-seeded M.           |
| Croton   | Croton.                        |
| 712. <i>glandulosus</i> , L.                     | 712. Croton.                   |
| 713. <i>capitatus</i> , Michx.                   | 713. "                         |
| URTICACEÆ.                                       | NETTLE FAMILY.                 |
| Ulmus  | Elm.                           |
| 714. <i>fulva</i> , Mich.                        | 714. Slippery or Red Elm.      |
| 715. <i>Americana</i> , L., Willd.               | 715. American or White Elm.    |
| Celtis   | Hackberry.                     |
| 716. <i>occidentalis</i> , L.                    | 716. Sugarberry. Hackberry.    |
| Morus  | Mulberry.                      |
| 717. <i>rubra</i> , L.                           | 717. Red M.                    |
| Urtica   | Nettle.                        |
| 718. <i>gracilis</i> , Ait.                      | 718. Nettle.                   |
| Laportea   | Wood-Nettle.                   |
| 719. <i>Canadensis</i> , Gaudich.                | 719. Wood-N.                   |
| Pilea  | Ricaweed. Clearweed.           |
| 720. <i>pumila</i> , Gray.                       | 720. Richweed.                 |
| Parietaria                                       | Pellitory.                     |
| 721. <i>Pennsylvanica</i> , Muhl.                | 721. Pellitory.                |
| Cannabis   | Hemp.                          |
| 722. <i>sativa</i> , L.                          | 722. Common H.                 |
| Humulus  | Hop.                           |
| 723. <i>Lupulus</i> , L.                         | 723. Common H.                 |
| PLATANACEÆ.                                      | PLANE-TREE FAMILY.             |
| Platanus   | Buttonwood. Plane-tree.        |
| 724. <i>occidentalis</i> , L.                    | 724. American Plane. Sycamore. |

## JUGLANDACEÆ.

## Juglans

725. *cinerea*, L.  
 726. *nigra*, L.  
**Carya**  
 727. *olivæformis*, Nutt.  
 728. *alba*, Nutt.  
 729. *tomentosa*, Nutt.  
 730. *amara*, Nutt.

## CUPULIFERÆ.

## Quercus

731. *alba*, L.  
 732. *obtusiloba*, Michx.  
 733. *macrocarpa*, Michx.  
 734. *bicolor*, Willd.  
 735. *Prinus*, L., var. *acuminata*,  
     Michx.  
 736.     var. *humilis*, Marshall.\*  
 737. *imbricaria*, Michx.  
 738. *nigra*, L.  
 739. *coccinea*, Wang.  
 740.     var. *tinctoria*, Gray.  
 741. *rubra*, L.  
 742. *palustris*, Du Roi.

## Corylus

743. *Americana*, Walt.

## Ostrya

744. *Virginica*, Willd.

## Carpinus

745. *Americana*, Michx.

## BETULACEÆ.

## Betula

746. *papyracea*, Ait.  
 747. *nigra*, L.

## Alnus

748. *incana*, Willd., var. *glauca*,  
     Gray.

## SALICACEÆ.

## Salix

749. *tristis*, Ait.  
 750. *humilis*, Marshall.  
 751. *discolor*, Muhl.  
 752. *petiolaris*, Smith.  
 753. *cordata*, Muhl.  
 754. *livida*, Wahl., var. *occiden-*  
     *talis*, Gray.  
 755. *nigra*, Marshall.  
 756.     var. *amygdaloïdes*, And.  
     (See App.)  
 757. *longifolia*, Muhl.

## WALNUT FAMILY.

## Walnut.

725. Butternut.  
 726. Black Walnut.  
**Hickory.**  
 727. Pecan-nut.  
 728. Shell-bark or Shag-bark H.  
 729. Mockernut.  
 730. Bitter-nut or Swamp H.

## OAK FAMILY.

## Oak.

731. White Oak.  
 732. Post Oak.  
 733. Bur Oak.  
 734. Swamp White-Oak.  
 735. Yellow Chestnut-Oak.  
 736. Dwarf Chestnut-Oak.  
 737. Laurel or Shingle Oak.  
 738. Black-Jack or Barren Oak.  
 739. Scarlet Oak.  
 740. Yellow-barked Oak.  
 741. Red Oak.  
 742. Pin Oak.

## Hazel-nut. Filbert.

743. Wild Hazel-nut.

## Hop-Hornbeam. Iron-wood.

744. American H.

## Hornbeam. Iron-wood.

745. Blue or Water Beech.

## BIRCH FAMILY.

## Birch.

746. Paper or Canoe Birch.  
 747. River or Red B.

## Alder.

748. Speckled Alder.

## WILLOW FAMILY.

## Willow. Osier.

749. Dwarf Gray Willow.  
 750. Prairie W.  
 751. Glaucous W.  
 752. Petioled W.  
 753. Heart-leaved W.  
 754. Livid W.  
 755. Black W.  
 756. Almond-leaved W.  
 757. Long-leaved W.

\*Fide Dr. Vasey, vol. ii, Am. Ent. & Bot.

***Populus***

758. *tremuloides*, Michx.  
 759. *grandidentata*, Michx.  
 760. *monilifera*, Ait.

**CONIFERÆ.*****Pinus***

761. *Strobus*, L.

***Juniperus***

762. *communis*, L.  
 763. *Virginiana*, L.

***Taxus***

764. *baccata*, L., var. *Canadensis*, Gray.

**ARACEÆ.*****Arisaema***

765. *triphyllum*, Torr.  
 766. *Dracontium*, Schott.

***Symplocarpus***

767. *fætidus*, Salisb.

***Acorus***

768. *Calamus*, L.

**LEMNACEÆ.*****Lemna***

769. *trisulca*, L.  
 770. *minor*, L.  
 771. *polyrrhiza*, L.

**TYPHACEÆ.*****Typha***

772. *latifolia*, L.

***Sparganium***

773. *eurycarpum*, Engelm.  
 774. *simplex*, Hudson, var. *Nuttallii*, Engelm.  
 775. *androcladum*, Engelm.\*

**NAIADACEÆ.*****Naias***

776. *flexilis*, Rostk.

***Zannichellia***

777. *palustris*, L.

***Potamogeton***

778. *lonchites*, Tucker.  
 779. *amplifolius*, Tucker.  
 780. *gramineus*, L.†  
 781. *prelongus*, Wulfen.  
 782. *perfoliatus*, L.  
 783. *pauciflorus*, Pursh.  
 784. *pectinatus*, L.

***Poplar. Aspen.***

758. American Aspen.  
 759. Large-toothed A.  
 760. Cotton-wood.

**PINE FAMILY.*****Pine.***

761. White P.

***Juniper.***

762. Common J.  
 763. Red Cedar or Savin.

***Yew***

764. Ground Hemlock.

**ARUM FAMILY.*****Indian Turnip. Dragon-Arum.***

765. Indian Turnip.  
 766. Green Dragon.

**Skunk Cabbage.**

767. Skunk C.

**Sweet Flag. Calamus.**

768. Sweet F.

**DUCKWEED FAMILY.*****Duckweed. Duck's-meat.***

769. Duckweed.  
 770. "  
 771. "

**CAT-TAIL FAMILY.****Cat-tail Flag.**

772. Common Cat-tail.

**Bur-reed.**

773. Bur-reed.  
 774. "  
 775. "

**PONDWEED FAMILY.*****Naiad.***

776. Naiad.

**Horned Pondweed.**

777. Horned P.

**Pondweed.**

778. Pondweed  
 779. "  
 780. "  
 781. "  
 782. "  
 783. "  
 784. "

\*Davenport.

†Lee County.

|                         |  |                                  |
|-------------------------|--|----------------------------------|
| <b>ALISMACEÆ.</b>       |  | <b>WATER-PLANTAIN FAMILY.</b>    |
| <b>Alisma</b>           |  | <b>Water-Plantain.</b>           |
| 785.                    | Plantago, L., var. Ameri-<br>canum, Gray.    | 785. Water-P.                    |
| <b>Echinodorus</b>      |  | <b>Echinodorus.</b>              |
| 786.                    | parvulus, Engelm.                            | 786. ——                          |
| <b>Sagittaria</b>       |  | <b>Arrow-head.</b>               |
| 787.                    | variabilis, Engelm.                          | 787. Common A.                   |
| 788.                    | graminea, Michx.                             | 788. Arrow-head.                 |
| <b>HYDROCHARIDACEÆ.</b> |  | <b>FROG'S-BIT FAMILY.</b>        |
| <b>Anacharis</b>        |  | <b>Water-weed.</b>               |
| 789.                    | Canadensis, Planchon.                        | 789. Water-weed.                 |
| <b>Vallisneria</b>      |  | <b>Tape-grass. Eel-grass.</b>    |
| 790.                    | spiralis, L.                                 | 790. Eel-grass.                  |
| <b>ORCHIDACEÆ.</b>      |  | <b>ORCHIS FAMILY.</b>            |
| <b>Orchis</b>           |  | <b>Orchis.</b>                   |
| 791.                    | spectabilis, L.                              | 791. Showy O.                    |
| <b>Habenaria</b>        |  | <b>Rein-Orchis.</b>              |
| 792.                    | viridis, R. Br., var. bracte-<br>ata, Reich. | 792. Rein-O.                     |
| 793.                    | leucophaea, Gray.                            | 793. "                           |
| <b>Spiranthes</b>       |  | <b>Ladies' Tresses.</b>          |
| 794.                    | cernua, Richard.                             | 794. Ladies' T.                  |
| <b>Pogonia</b>          |  | <b>Pogonia.</b>                  |
| 795.                    | pendula, Lindl.                              | 795. Pogonia.                    |
| <b>Calopogon</b>        |  | <b>Calopogon.</b>                |
| 796.                    | pulchellus, R. Br.                           | 796. Calopogon.                  |
| <b>Liparis</b>          |  | <b>Twayblade.</b>                |
| 797.                    | liliifolia, Richard.                         | 797. Twayblade.                  |
| <b>Aplectrum</b>        |  | <b>Putty-root. Adam-and-Eve.</b> |
| 798.                    | hyemale, Nutt.                               | 798. Putty-root.                 |
| <b>Cypripedium</b>      |  | <b>Lady's-Slipper.</b>           |
| 799.                    | candidum, Muhl.                              | 799. Small White L.              |
| 800.                    | pubescens, Willd.                            | 800. Large Yellow L.             |
| 801.                    | spectabile, Swartz.                          | 801. Showy L.                    |
| <b>AMARYLLIDACEÆ.</b>   |  | <b>AMARYLLIS FAMILY.</b>         |
| <b>Hypoxys</b>          |  | <b>Star-grass.</b>               |
| 802.                    | erecta, L.                                   | 802. Star-grass.                 |
| <b>IRIDACEÆ.</b>        |  | <b>IRIS FAMILY.</b>              |
| <b>Iris</b>             |  | <b>Flower-de-Luce.</b>           |
| 803.                    | versicolor, L.                               | 803. Common Blue Flag.           |
| <b>Sisyrinchium</b>     |  | <b>Blue-eyed Grass.</b>          |
| 804.                    | Bermudiana, L., var. an-<br>ceps, Gray.      | 804. Blue-eyed G.                |
| 805.                    | var. mucronatum, Gray.                       | 805. "                           |
| 806.                    | var. albidum, Gray..                         | 806. "                           |
| <b>DIOSCOREACEÆ.</b>    |  | <b>YAM FAMILY.</b>               |
| <b>Dioscorea</b>        |  | <b>Yam.</b>                      |
| 807.                    | villosa, L.                                  | 807. Wild Yam-root.              |

**SMILACACEÆ.**

- Smilax**  
 808. *hispida*, Muhl.  
 809. *herbacea*, L., var. *pulverulenta*, Gray.

**LILIACEÆ.**

- Trillium**  
 810. *sessile*, L.  
 811. *recurvatum*, Beck.  
 812. *erectum*, L., var. *album*, Pursh.  
 813. var. *declinatum*, Gray.  
 814. *cernuum*, L.  
 815. *nivale*, Riddell.

**Melanthium**

816. *Virginicum*, L.

**Zygadenus**

817. *glaucus*, Nutt.

**Uvularia**

818. *grandiflora*, Smith.

**Smilacina**

819. *racemosa*, Desf.  
 820. *stellata*, Desf.  
 821. *bifolia*, Ker., var. *Canadensis*, Gray.

**Polygonatum**

822. *biflorum*, Ell.  
 823. *giganteum*, Dietrich.

**Lilium**

824. *Philadelphicum*, L.  
 825. *Canadense*, L.  
 826. *superbum*, L.

**Erythronium**

827. *albidum*, Nutt.

**Scilla**

828. *Fraseri*, Gray.

**Allium**

829. *tricoccum*, Ait.  
 830. *Canadense*, Kalm.  
 831. *striatum*, Jacq.

**Yucca**

832. *angustifolia*, Pursh. (*See App.*)

**JUNCACEÆ.****Luzula**

833. *campestris*, DC.\*

**Juncus**

834. *effusus*, L.  
 835. *tenuis*, Willd.

**SMILAX FAMILY.**

- Greenbrier. Catbrier.**  
 808. Greenbrier.  
 809. Carrion-Flower.

**LILY FAMILY.**

- Three-leaved Nightshade.**  
 810. *Trillium*.  
 811. "  
 812. "  
 813. "  
 814. *Wake Robin*.  
 815. *Dwarf White Trillium*.

**Melanthium.**

816. *Bunch-flower*.

**Zygadene.**

817. *Zygadene*.

**Bellwort.**

818. *Bellwort*.

**False Solomon's Seal.**

819. *False Spikenard*.  
 820. *False Solomon's S.*  
 821. " "

**Solomon's Seal.**

822. *Smaller Solomon's Seal*.  
 823. *Great S.*

**Lily.**

824. *Wild Orange-red Lily*.  
 825. *Wild Yellow L.*  
 826. *Turk's-cap L.*

**Dog's-tooth Violet.**

827. *White Dog's-tooth V.*

**Squill.**

828. *Wild Hyacinth. Quamash*.

**Onion. Garlic.**

829. *Wild Leek*.  
 830. *Wild Garlic*.  
 831. " "

**Bear-Grass. Spanish Bayonet.**

832. *Spanish B*

**RUSH FAMILY.**

- Wood-Rush.**  
 833. *Wood-Rush*.  
**Rush. Bog-Rush.**  
 834. *Common or Soft R.*  
 835. *Bog-Rush*.

\*Lee County.

|   |                              |
|---|------------------------------|
| 836. <i>acuminatus</i> , Michx.                             | 836. Bog-Rush.               |
| 837. <i>nodosus</i> , L.                                    | 837. "                       |
| 838. var. <i>megacephalus</i> , Torr.                       | 838. "                       |
| 839. <i>Canadensis</i> , J. Gay.                            | 839. "                       |
| <b>PONTEDERIACEÆ.</b>                                       |                              |
| <b>Pontederia</b>   | <b>PICKEREL-WEED FAMILY.</b> |
| 840. <i>cordata</i> , L.                                    | 840. Pickerel-weed.          |
| <b>SCHOLLERIA</b>   |                              |
| 841. <i>graminea</i> , Willd.                               | 841. Water Star-grass.       |
| <b>COMMELYNACEÆ.</b>  |                              |
| <b>Tradescantia</b>   | <b>SPIDERWORT FAMILY.</b>    |
| 842. <i>Virginica</i> , L.                                  | 842. Common S.               |
| <b>CYPERACEÆ.</b>   |                              |
| <b>Cyperus</b>  | <b>SEDGE FAMILY.</b>         |
| 843. <i>diandrus</i> , Torr., var. <i>castaneus</i> , Torr. | 843. Galingale.              |
| 844. <i>phyumatodes</i> , Muhl.                             | 844. "                       |
| 845. <i>strigosus</i> , L.                                  | 845. "                       |
| 846. <i>Michauxianus</i> , Schultes.                        | 846. "                       |
| 847. <i>Engelmanni</i> , Steud.                             | 847. "                       |
| 848. <i>Schweinitzii</i> , Torr.                            | 848. "                       |
| 849. <i>filiculmis</i> , Vahl.                              | 849. "                       |
| <b>Dulichium</b>  |                              |
| 850. <i>spathaceum</i> , Pers.                              | 850. Dulichium.              |
| <b>Eleocharis</b>   |                              |
| 851. <i>palustris</i> , R. Br.                              | 851. Spike-R.                |
| 852. <i>compressa</i> , Sulliv.                             | 852. "                       |
| 853. <i>intermedia</i> , Schultes.                          | 853. "                       |
| 854. <i>acicularis</i> , R. Br.                             | 854. "                       |
| <b>Scirpus</b>  |                              |
| 855. <i>validus</i> , Vahl.                                 | 855. Great Bulrush.          |
| 856. <i>atrovirens</i> , Muhl.                              | 856. Bulrush.                |
| 857. <i>Eriophorum</i> , Michx.                             | 857. Wool-Grass.             |
| <b>Eriophorum</b>   |                              |
| 858. <i>polystachyon</i> , L.                               | 858. Cotton-G.               |
| <b>Scleria</b>  |                              |
| 859. <i>triglomerata</i> , Michx.                           | 859. Nut-R.                  |
| <b>Carex</b>  |                              |
| 860. <i>bromoides</i> , Schk.                               | 860. Sedge.                  |
| 861. <i>disticha</i> , Huds.                                | 861. "                       |
| 862. <i>vulpinoidea</i> , Michx.                            | 862. "                       |
| 863. <i>stipata</i> , Muhl.                                 | 863. "                       |
| 864. <i>spparganioides</i> , Muhl.                          | 864. "                       |
| 865. <i>cephaloidea</i> , Boott.                            | 865. "                       |
| 866. <i>cephalophora</i> , Muhl.                            | 866. "                       |
| 867. <i>rosea</i> , Schk.                                   | 867. "                       |
| 868. <i>sterilis</i> , Willd.                               | 868. "                       |
| 869. <i>stellulata</i> , L., var. <i>scirpoides</i> , Gray. | 869. "                       |
| 870. <i>arida</i> , Schw. & Torr.*                          | 870. "                       |
| 871. <i>scoparia</i> , Schk.                                | 871. "                       |
| 872. var. <i>minor</i> , Boott.                             | 872. "                       |

\*Dubuque.

|  |             |
|--|-------------|
| 873. <i>lagopodioides</i> , Schk.                          | 873. Sedge. |
| 874. <i>cristata</i> , Schw.                               | 874. "      |
| 875. var. <i>mirabilis</i> , Boott.                        | 875. "      |
| 876. <i>adusta</i> , Boott.                                | 876. "      |
| 877. <i>foenea</i> , (?) Willd.                            | 877. "      |
| 878. var. (?) <i>ferruginea</i> , Boott.                   | 878. "      |
| 879. <i>straminea</i> , Schk., var. <i>typica</i> , Boott. | 879. "      |
| 880. var. <i>hyalina</i> , Boott.                          | 880. "      |
| 881. var. <i>Meadii</i> , Boott.                           | 881. "      |
| 882. <i>aperta</i> , Boott.                                | 882. "      |
| 883. <i>stricta</i> , Lam.                                 | 883. "      |
| 884. <i>Buxbaumii</i> , Wahl.                              | 884. "      |
| 885. <i>Meadii</i> , Dew.                                  | 885. "      |
| 886. <i>grisea</i> , Wahl.                                 | 886. "      |
| 887. <i>Davisii</i> , Schw. & Torr.                        | 887. "      |
| 888. <i>plantaginea</i> , Lam.*                            | 888. "      |
| 889. <i>laxiflora</i> , Lam., var. <i>blanda</i> , Boott.  | 889. "      |
| 890. var. <i>latifolia</i> , Boott.                        | 890. "      |
| 891. <i>eburnea</i> , Boott.                               | 891. "      |
| 892. <i>Pennsylvanica</i> , Lam.                           | 892. "      |
| 893. <i>lanuginosa</i> , Michx.                            | 893. "      |
| 894. <i>hystricina</i> , Willd.                            | 894. "      |
| 895. <i>intumescens</i> , Rudge.                           | 895. "      |
| 896. <i>lupulina</i> , Muhl.                               | 896. "      |
| 897. <i>folliculata</i> , L.                               | 897. "      |
| 898. <i>longirostris</i> , Torr.                           | 898. "      |

## GRAMINEÆ.

*Leersia*

899. *Virginica*, Willd.  
900. *oryzoides*, Swartz.

*Zizania*

901. *aquatica*, L.

*Alopecurus*

902. *aristulatus*, Michx.

*Phleum*

903. *pratense*, L.

*Vilfa*

904. *vaginæflora*, Torr.  
905. *cuspidata*, Torr.

*Sporobolus*

906. *heterolepis*, Gray.  
907. *cryptandrus*, Gray.

*Agrostis*

908. *perennans*, Tuckerm.  
909. *scabra*, Willd.  
910. *vulgaris*, With.  
911. *alba*, L.

*Cinna*

912. *arundinacea*, L.

## GRASS FAMILY.

## White Grass.

899. White G.  
900. Rice Cut-grass.

## Water or Indian Rice.

901. Indian Rice. Water Oats.

## Foxtail Grass.

902. Wild Foxtail.

## Cat's-tail Grass.

903. Timothy. Herd's-Grass.

## Rush-Grass.

904. Rush-G.  
905. "

## Drop-seed Grass.

906. Drop-seed G.  
907. "

## Bent-Grass.

908. Thin-Grass.  
909. Hair-G.  
910. Red-top.  
911. Fiorin or White Bent-G.

## Wood Reed-grass.

912. Wood R.

\*Lee County.

|   |                                   |
|---|-----------------------------------|
| <b>Muhlenbergia</b>                                       | <b>Drop-seed Grass.</b>           |
| 913. <i>obolifera</i> , Trin.                             | 913. Drop-seed G.                 |
| 914. <i>glomerata</i> , Trin.                             | 914. "                            |
| 915. <i>Mexicana</i> , Trin.                              | 915. "                            |
| 916. <i>sylvatica</i> , Torr. & Gr.                       | 916. "                            |
| 917. <i>Willdenovii</i> , Trin.                           | 917. "                            |
| 918. <i>diffusa</i> , Schreber.                           | 918. "                            |
| <b>Brachelytrum</b>                                       | <b>Brachelytrum.</b>              |
| 919. <i>aristatum</i> , Beauv.                            | 919. —                            |
| <b>Calamagrostis</b>                                      | <b>Reed Bent-Grass.</b>           |
| 920. <i>Canadensis</i> , Beauv.                           | 920. Blue Joint-G.                |
| 921. <i>longifolia</i> , Hook.                            | 921. " "                          |
| <b>Oryzopsis</b>  | <b>Mountain Rice.</b>             |
| 922. <i>melanocarpa</i> , Muhl.                           | 922. Mountain Rice.               |
| <b>Stipa</b>  | <b>Feather-Grass.</b>             |
| 923. <i>spartea</i> , Trin.                               | 923. Porcupine Grass.             |
| <b>Aristida</b>   | <b>Triple-awned Grass.</b>        |
| 924. <i>gracilis</i> , Ell.                               | 924. Triple-awned Grass.          |
| <b>Spartina</b>   | <b>Cord or Marsh Grass.</b>       |
| 925. <i>cynosuroides</i> , Willd.                         | 925. Fresh-water Cord-G.          |
| <b>Bouteloua</b>  | <b>Muskit-Grass.</b>              |
| 926. <i>hirsuta</i> , Lagasca.                            | 926. Muskit-G.                    |
| 927. <i>curtipendula</i> , Gray.                          | 927. "                            |
| <b>Diarrhena</b>  | <b>Diarrhena.</b>                 |
| 928. <i>Americana</i> , Beauv.                            | 928. Diarrhena.                   |
| <b>Dactylis</b>   | <b>Orchard Grass.</b>             |
| 929. <i>glomerata</i> , L.                                | 929. Orchard G.                   |
| <b>Kœleria</b>  | <b>Kœleria.</b>                   |
| 930. <i>cristata</i> , Pers.                              | 930. Kœleria.                     |
| <b>Eatonia</b>  | <b>Eatonia.</b>                   |
| 931. <i>obtusata</i> , Gray.                              | 931. Eatonia.                     |
| <b>Melica</b>   | <b>Melic-Grass.</b>               |
| 932. <i>mutica</i> , Walt., var. <i>glabra</i> ,<br>Gray. | 932. Melic-G.                     |
| 933. var. <i>diffusa</i> , Gray.                          | 933. "                            |
| <b>Glyceria</b>   | <b>Manna-Grass.</b>               |
| 934. <i>nervata</i> , Trin.                               | 934. Fowl Meadow-G., in part.     |
| <b>Poa</b>  | <b>Meadow-grass. Spear-Grass.</b> |
| 935. <i>compressa</i> , L.                                | 935. Wire-Grass.                  |
| 936. <i>serotina</i> , Ehrh.                              | 936. False Red-top.               |
| 937. <i>pratensis</i> , L.                                | 937. Kentucky Blue-Grass.         |
| <b>Eragrostis</b>   | <b>Eragrostis.</b>                |
| 938. <i>reptans</i> , Nees.                               | 938. Eragrostis.                  |
| 939. <i>pooeoides</i> , Beauv.                            | 939. "                            |
| 940. var. <i>megastachya</i> , Gray.                      | 940. "                            |
| 941. <i>pilosa</i> , Beauv.                               | 941. "                            |
| 942. <i>Frankii</i> , Meyer.                              | 942. "                            |
| <b>Festuca</b>  | <b>Fescue-Grass.</b>              |
| 943. <i>tenella</i> , Willd.                              | 943. Fescue-G.                    |
| 944. <i>nutans</i> , Willd.                               | 944. "                            |

**Bromus**

945. *secalinus*, L.  
 946. *racemosus*, L.  
 947. Kalmii, Gray.  
 948. *ciliatus*, L.  
 949. var. *purgans*, Gray.

**Phragmites**

950. *communis*, Trin.

**Lolium**

951. *temulentum*, L.

**Triticum**

952. *repens*, L.

**Hordeum**

953. *jubatum*, L.

**Elymus**

954. *Virginicus*, L.  
 955. *Canadensis*, L.  
 956. var. *glaucifolius*, Gray.  
 957. *striatus*, Willd.

**Gymnostichum**

958. *Hystrix*, Schreber.

**Hierochloa**

959. *borealis*, Roem. & Schul.

**Phalaris**

960. *arundinacea*, L.

**Paspalum**

961. *læve*, Michx.

**Panicum**

962. *glabrum*, Gaudin.  
 963. *sanguinali*, L.  
 964. *agrostoides*, Spreng.  
 965. *proliferum*, Lam.  
 966. *capillare*, L.  
 967. *virgatum*, L.  
 968. *latifolium*, L.  
 969. *xanthophysum*, Gray.  
 970. *pauciflorum*, Ell.  
 971. *dichotomum*, L.  
 972. var. *sphaerocarpum*, L.  
 973. *Crus-galli*, L.

**Setaria**

974. *glauca*, Beauv.  
 975. *viridis*, Beauv.

**Cenchrus**

976. *tribuloides*, L.

**Andropogon**

977. *furcatus*, Muhl.  
 978. *scoparius*, Michx.

**Sorghum**

979. *nutans*, Gray.

**Brome-Grass.**

945. Cheat or Chess.  
 946. Upright Chess.  
 947. Wild C.  
 948. Brome-Grass.  
 949. "

**Reed.**

950. Common R.

**Darnel.**

951. Bearded D.

**Wheat.**

952. Couch-, or Quick- Grass.

**Barley.**

953. Squirrel-tail Grass.

**Lyme-Grass. Wild Rye.**

954. Wild Rye.  
 955. " "  
 956. " "  
 957. " "

**Bottle-brush Grass.**

958. Bottle-brush G.

**Holy Grass.**

959. Vanilla or Seneca G.

**Canary-Grass.**

960. Reed Canary-G.

**Paspalum.**

961. Paspalum.

**Panic-Grass.**

962. Panic-G.  
 963. Common Crab or Finger G.  
 964. Panic-G.  
 965. "  
 966. Old-witch Grass.  
 967. Panic-G.  
 968. "  
 969. "  
 970. "  
 971. "  
 972. "  
 973. Barnyard-Grass.

**Bristly Foxtail Grass.**

974. Foxtail.  
 975. Green Foxtail. Bottle-G.

**Hedgehog- or Bur-Grass.**

976. Bur-G.

**Beard-Grass.**

977. Beard G.  
 978. "

**Broom Corn.**

979. Indian Grass. Wood-Grass.

## APPENDIX.

17. RANUNCULUS AQUATILIS, L., var. STAGNAFILIS, DC. (*R. divaricatus*, of Gray's Manual.)

"Frequent forms occur connecting this with the variety *trichophyllum*. It can hardly be *R. divaricatus*, Schrank, as European and Asiatic specimens of that species show a well-defined lamina to the segments of the leaves, while in American specimens they are always filiform." Watson's Rep. in King's Exp.

### CLEOME, L.

Sepals distinct or somewhat united. Stamens 6 or rarely 4. Torus minute. Pod linear or oblong, subsessile or stipitate.—Annual herbs or shrubs with digitate or simple leaves and racemed or solitary flowers. Benth. & Hook.

83. C. INTEGRIFOLIA, Torr. & Gr. —Annual, somewhat glaucous, 2<sup>c</sup> 3<sup>d</sup> high, widely branching; leaves 3-foliolate; leaflets lanceolate, (the lower-most oblong) entire, submucronate; racemes sometimes nearly 1<sup>c</sup> long; flowers large, showy, reddish purple, rarely white; sepals united to the middle, persistent, segments triangular-acuminate; petals with very short claws; stamens equal; pods oblong-linear, compressed, much longer than the stipe. Flor. Col., Port. & Coul.

91. VIOLA CANADENSIS, L.—As yet found only at Decorah. Our plant varies from the typical one in having much smaller pink flowers, whose lateral petals are not bearded; as well as in general aspect, which is decidedly like *V. pubescens*.

124. PORTULACA RETUSA, Engel.—Like *P. oleracea*, but greener, and the stem more ascending, sometimes covering a space several feet in diameter; leaves usually smaller than the common species; sepals obtuse, broadly carinate-winged; petals yellow; stigmas 3 or 4; capsule 2½" 3" long, broader in proportion; seeds more strongly tuberculate than in *P. oleracea*. Flor. Cal.

131. CALLIRRHOE INVOLUCRATA, Gray.—Hirsute; stem branching, procumbent; leaves deeply 3-5-parted, covered with stellate hairs, segments linear-lanceolate, lacinately 3-5-toothed; peduncles erect, 1-flowered, longer than the leaves; flowers few in a loose panicle, about 1½' in diameter, axillary, scarlet; bracteoles 3, linear-lanceolate, ⅓ the length of the deeply-parted calyx; carpels numerous, hairy, not wrinkled. Flor. Col., Port. & Coul.

155. *VITIS CORDIFOLIA*, Michx. -Tall (or more rarely low) climbing high, trunks not rarely 6'-9' in diameter; leaves middle-sized or small ( $2\frac{1}{2}'$  3' or 4' in diameter), heart-shaped, mostly entire or very slightly tri-lobed on the edges, with broad, shallow teeth, usually smooth and shining, more on the upper than on the lower side, the young ones sometimes, and very rarely the old ones, with short hair on the ribs below; berries small, in large, mostly loose bunches, black, without a bloom, maturing late in the fall, usually only with a single short and thick seed, marked by a prominent raphe. This grows more especially in fertile soil, and is common in river and creek bottoms. *Engelm. in 6th An. Rep. Insects Mo.*

156. *VITIS RIPARIA*, Michx., (*V. cordifolia*, Michx., var. *riparia*, Gray.) Mostly a smaller plant than the last, but with larger (3'-5' in diameter) and more or less incisely 3-lobed, glabrous, shining (or rarely when young, slightly hairy) leaves, the lobes long and pointed, the teeth also more pointed than in *V. cordifolia*; berries usually larger than in the last, mostly with a bloom, in smaller and often more compact bunches, commonly 1-2-seeded; seeds with a less prominent raphe. -This species prefers thickets or rocky soil on river banks, the northern form has fewer and larger berries in a bunch, and is easily distinguished from *V. cordifolia*. The fruit ripens earlier than the former and is pleasanter. *Engelm. in Insects Mo.*

189. *DALEA LAXIFLORA*, Pursh. -Glabrous, 3°-4° high, erect, branched above; branches slender and spreading; leaflets 4-5 pairs, linear-oblong, 2"-3" long,  $1\frac{1}{2}$ " wide, strongly dotted; spikes panicled, few-flowered; flowers distant; bracts very broad, almost orbicular, glandular, coriaceous, glabrous, slightly cuspidate, embracing the flower; calyx deeply cleft, teeth long, setaceous, beautifully plumose; corolla white, keel twice as long as the wings, vexillum cordate, very small, sometimes with 4 approximated glands near the middle. *Flor. Col., Port. & Coul.*

241. *POTENTILLA RIVALIS*, Nutt. -More slender than *P. Norvegica*, branched, villous or nearly glabrous; stipules lanceolate to ovate, entire or toothed; leaves pinnate, with two pairs of closely approximate leaflets, or a single pair and the terminal leaflet three-parted, the upper leaves ternate; leaflets ovate or oblong-cuneate or lanceolate, 1'-2' long, more or less incised-serrate; cymes loose, less leafy, with slender pedicels; bractlets and sepals equal,  $1\frac{1}{2}''$ -3" long; petals minute; stamens 10-20; achenia usually smooth; receptacle short. From the Missouri river to New Mexico. Not yet found within our limits.

VAR. *PENTANDRA*, Watson. -Leaves ternate, the lateral leaflets of the lower leaves parted nearly to the base; stamens five, opposite to the sepals. (*P. pentandra*, Engel.) -Found only at Humboldt, Humboldt County. *Watson's Rev. in Proc. Am. Acad. VIII.*

277. *GAURA COCCINEA*, Nutt. Canescent, puberulent or glabrate; stems suffruticose and fastigiate branched from the base, 6'-12' high, very leafy, ascending; leaves lanceolate, linear-oblong or linear, repand-denticulate or entire, 6"-12" long, closely sessile; flowers in simple spikes terminating the leafy branches, rose color, turning to scarlet; bracts linear, rather persistent, longer than the ovaries; calyx-segments linear-oblong, shorter than the narrow infundibuliform tube, as long as the roundish, unguiculate petals; fruit elliptical, sessile, short, terete, 4-sided above. *Flor. Col., Port. & Coul.*

297. *PEUCEDANUM (?) NUDICAULE*, Nutt. Caulescent or sometimes scarcely so, minutely pruinose-pubescent, 3'-15' high; leafy only at base; leaves bipinnate or ternate-bipinnate, the segments in-

cisely lobed with usually rather broad and subacute divisions; umbel somewhat capitate in flower, with 8-12 rays; involucre none; involucels unilateral, of 6-10 membranously margined, more or less united bracts; petals white, with attenuated apex and quasi-obcordate; calyx-teeth short; fruit pubescent, broadly oval, 3"-4" long and 3" broad, the thickish wing more than half as wide as the seed; vittæ 3 in the intervals, 6 upon the commissure, conspicuous; seed flattened. March-June. *Watson's Rep. in King's Exp. of 40th Par.*

"As observed by Dr. Gray, the plant does not accord with Nuttall's description, nor in all respects with the characters of the genus."

#### ADONIA, L.

A genus belonging to the order Caprifoliaceæ, and composed of but a single species, widely distributed throughout the cooler parts of the globe. It is characterized as follows in *Flor. N. A.*:

Flowers perfect. Tube of the calyx coherent with the lower part of the ovary, the limb slightly 2-3 cleft. Petals 4-5, inserted on the limb of the calyx, united at the base, spreading. Stamens 4-5, each filament 2-parted; the divisions bearing each a single-celled peltate anther. Styles 4-5, subulate. Fruit an herbaceous and juicy berry, 4-5 celled; each cell with a single suspended seed. Seeds compressed, with a membranaceous margin.

326. *A. MOSCHATELLINA*, L. A small perennial herb, with the odor of musk; root tuberous; radical leaves twice ternately compound, on long petioles, the caudine solitary, 1-2 ternate or incised; flowers 4-6 (greenish) in a terminal capitulum, the lateral ones mostly pentamerous, the terminal tetramerous.

349. *LIATRIS PUNCTATA*, Hook. Stems 8'-3' high, from a thick, knotted fusiform root, glabrate, leafy to the top; leaves linear, rigid, strongly punctate on both sides, glabrous or their margins sometimes ciliate, lower ones 3'-5' long, slightly 3-nerved, 1"-3" wide, pungently acute; heads in a dense spike, 4'-10' long, 4-6 flowered; flowers reddish-purple; scales of the cylindraceous involucre oblong, strongly punctate, imbricated, appressed, with mucronate, acuminate, rather spreading tips, margins woolly-ciliate; bristles of the pappus about 30, purplish or white, very plumose; achene hairy. *Flor. Col., Port. & Coul.*

#### APLOPAPPUS, Cass.

Heads few-many-flowered; ray-flowers 3-many, pistillate, fertile; those of the disk tubular, perfect, generally fertile. Involucre cylindrical, turbinate, campanulate, or hemispherical, the scales imbricated in few-several series, from linear-subulate varying to broadly oval. Receptacle flat, alveolate. Corolla of the disk funnel-shaped, or slightly dilated upward, 5-toothed. Style of the disk flowers with the branches flattened, the subulate hispid appendages much longer than the stigmatic portion. Achene oblong or linear, mostly terete or turbinate. Pappus simple, white or brownish, of copious, mostly unequal bristles. Perennial herbs or suffruticose plants, with entire or pinnately-toothed or serrate leaves; flowers always yellow. Natives of Western North America and parts of South America.

400. *A. SPINULOSUS*, DC.—Herbaceous, canescent with a soft, minute, woolly pubescence; stems many, 10'-20' high, corymbosely branched above; leaves small, 9"-12" long, rigid, pinnately or somewhat bi-pinnately parted, segments short, linear-subulate, mucronate with a short bristle; heads small, subglobose, terminating the numerous branchlets; involucre shorter than the disk, scales subulate-lanceolate, mucronulate, imbricated in 3-4 series, appressed, canescent; rays 20-30; corolla of the disk with very short teeth;

pappus pale or tawny, short, very unequal; achenia turbinate, villosa. *Flor. Col., Port. & Coul.*

**GRINDELIA**, Willd.

Heads many-flowered; the ray flowers generally present, pistillate, the ligule elongated; disk-flowers perfect, the corolla tubular-funnel-shaped, 5-toothed. Involucle subglobose or hemispherical, the scales imbricated in many rows. Receptacle naked, flat, foveolate. Style with lanceolate, hispid appendages as long as the stigmatic portion. Achenium smooth, oblong, or ovate, somewhat angled. Pappus of 2-8 smooth, rigid, deciduous awns, shorter than the disk-corollas. Biennial (?) perennial or suffruticose, often re-iniferous, Mexican and North American plants.

401. *G. SQUARROSA*, Dunal. —Glabrous and viscidly resinous; stems herbaceous from a perennial caudex, 1 $\frac{1}{2}$ -2 $\frac{1}{2}$  high, corymbosely branched above; leaves somewhat rigid, glaucous and punctate, radical ones spatulate-lanceolate, narrowed into a petiole, dentate or incised, caudine mostly oblong, sessile and partly clasping, rather obtuse, finely toothed or spinulose-serrate; heads numerous, subglobose, 6" broad; the scales very rigid, close-appressed, but with very long reflexed, squarrose, subulate points, resinous; rays numerous, rather narrow; pappus of 2-4 very rigid, deciduous bristles or awns. *Flor. Col., Port. & Coul.*

**CYCLACHLENA**, Fres.

Fertile and sterile flowers in the same head; the former 5, in the axils of the inner scales of the involucre, with no corolla or a mere rudiment; the latter 10-15, with an obconical 5-toothed corolla (nearly destitute of proper tube); the central ones abortive. Scales of the flattish hemispherical involucre usually 10, in 2 series; the exterior 5, ovate, somewhat acuminate, thickish, herbaceous; the interior dilated-obovate, truncate, membranaceous, at length loosely wrapped around the achenia. Receptacle small, flat; the chaff linear spatulate, usually wanting toward the center. Anthers slightly united, tipped with an inflexed mucronate appendage. Style of the fertile flowers deeply 2-cleft, linear, acutish; in the sterile flowers undivided, radiate-penicillate at the apex. Achenia obovate, obcompressed, slightly turgid, not margined, glabrous, entirely destitute of pappus; the staminate flowers with no rudiments of ovaries.

408. *C. XANTHIIFOLIA*, Fres. A tall and coarse annual; the stem simple, and more or less branched at the summit; leaves opposite, ovate or sub-cordate, acuminate, doubly or unequally serrate, 3 nerved, hirsute-canescens or pubescent beneath, somewhat scabrous, on long petioles; heads small greenish, ebracteate, sessile and often glomerate, disposed in compound terminal and axillary spikes, forming a pyramidal panicle. *Flor. N. A.*

426. *HELIANTHUS LENTICULARIS*, Dougl. Annual, scabrous or hispid, branching, stout, 3-8' high; leaves ovate, alternate, acuminate, coarsely-serrate, 3' 6" long, 2' 4" broad, 3-nerved at the base and suddenly narrowed into a petiole nearly as long as the leaf, uppermost often lanceolate and entire; heads mostly panicled, peduncled, 2' 4" broad; scales of the involucre ovate, ciliate, abruptly and conspicuously acuminate, in about 3 rows, spreading; rays 20-40, large; chaff of the flat receptacle nearly as long as the purplish disk-flowers, concave, carinate, tricuspidate, the middle point much the strongest and dark-colored; achenia finely appressed-pubescent; pappus of two lanceolate, chaffy awns. *Flor. Col., Port. & Coul.*

471. *CENTAUREA AMERICANA*, Nutt. Stem erect, striate-grooved, sparingly branched, thickened under the heads; leaves sessile, gla-

brous, often scabrous, the lower oblong-ovate, repand-toothed, the upper lanceolate, acute; heads not bracteate; scales of the involucle all with pectinate appendages; rays elongated, the segments very long and slender. *Flor. N. A.*

Common in cultivation, and native in Southern U. S. Plant 2-3' high, with very large, showy heads. Flowers pale purple.

**CNICUS, L.**

(*CIRSIUM*, Tourn., of Gray's Manual.) This change is the result of a more exhaustive study of the genus and leaves the synonymy as given in the body of the Catalogue. It does not otherwise effect the species enumerated. See *Gray's Rev. of Thistles in Proc. Am. Ac. IX. & X.*

**CREPIS, L.**

Heads several-many-flowered; flowers all ligulate. Involucre usually calyculate with a few small bracteoles, the proper scales nearly equal, in a single series. Receptacle naked or slightly hairy. Achene terete or somewhat compressed, 8-30 striate, usually narrower above or even tapering into a short beak, the apex expanded into a minute disk. Pappus pure white, copious, of denticulate or scabrous delicate capillary bristles, or sometimes of more rigid bristles slightly dilated toward the base.

489. *C. RUNCINATA*, Torr. & Gr. - Perennial, slightly hirsute, becoming smoother; radical leaves obovate or oblong-lanceolate, runcinate-lobed or only slightly toothed, tapering to the base, 2'-7' long; scape 1'-2' high, branching, bearing a few linear, bract-like leaves; branches and involucres more or less hirsute with blackish, often glandular, hairs; involucres many-flowered, calyculate; scales linear-lanceolate, with scarious margins; achene striate, slightly tapering upwards. *Flor. Col., Port. & Coul.*

493. *LACTUCA LUDOVICIANA*, DC. -- Very smooth (3-5' high); leaves all runcinate, retrose and sharply toothed, the caudine partly clasping; panicle divaricate, the peduncles and involucres naked; pappus conspicuously stipitate; flowers yellow. *Flor. N. A.*

It is doubtful if this be distinct from *Mulgedium pulchellum*, Nutt.

570. *LYCOPUS RUBELLUS*, Mœnch. - Nearly glabrous; stem weak, sub-erect (1'-2' high), obtusely angled; leaves petioled, ovate-oblong or oblong-lanceolate, much acuminate at both ends; calyx teeth triangular awl-shaped, not rigid. (*L. Europaeus*, L., var. *integrifolius*, Gray.) *Gray's Rev. Lyc., Proc. Am. Ac.*, 1870.

571. *LYCOPUS LUCIDUS*, Turcz. Stem stout (2'-3' high), erect, acute-angled at top; leaves lanceolate or oblong-lanceolate (2'-4' long), acute or acuminate, with large and very sharp serrations, the base obtuse, or occasionally acute, subsessile; calyx teeth alternate, subulate.

VAR. *AMERICANUS*, Gray. Leaves barely shining on both sides, often hairy pubescent; stem generally hairy; calyx teeth small and rigid. *Ibid.*

572. *LYCOPUS SINUATUS*, Ell. - Stem acutely 4-angled; leaves lanceolate or oblong, acute, irregularly incised and laciniate-pinnatifid, sinuate, dentate at the point, attenuate at the base, on moderately long petioles; calyx teeth triangular, subulate, short cuspidate; rudimentary stamen filiform, capitate, or clavate at the summit. (*L. Europaeus*, L., var. *sinuatus*, Gray.) *Ibid.*

578. *SALVIA LANCEOLATA*, Willd. Stem herbaceous, ascending and with the branches, glabrous; leaves petioled, lance-linear, obtuse or acuminate, base narrow; bracts lance-subulate, shorter than

the calyx; raceme simple; calyx tubular, striate, glabrous, teeth acute; corolla little longer than the calyx, blue. (*S. trichostemoides*, Pursh.)

612. **ELLISIA NYCTELEA**, L. *E. ambigua*, Nutt., is only a slender form of this species according to Dr. Gray in *Proc. Am. Acad. X.* Our plant is of this character.

#### PHYSALIS, L.

Gray's Revision in *Proc. Am. Acad. X.* does not effect the species mentioned except to change the synonymy as shown in the Catalogue.

658. **OXYBAPHUS ANGUSTIFOLIUS**, Sweet. — Stems glabrous, ascending, slender, 10-60 high; leaves glabrous, linear, usually elongated, 2'-4' long, thick, glaucous; flowers loosely panicled; peduncles and involucle pubescent; involucre with 5 triangular, ovate, acuminate lobes, 3-5-flowered, becoming 5" long in fruit; perianth short, sub-campanulate or rotate-funnel-form, scarcely exceeding the involucre, white or pink, the limb 1½" long; stamens exserted; fruit hoary-pubescent, 2½" long. *Flor. Col., Port. & Coul.*

659. **OXYBAPHUS ALBIDUS**, Sweet. Nearly glabrous except the inflorescence; leaves all subsessile, lanceolate or oblong-lanceolate, acute at base; fruit more hirsute, muriculate along or between the ribs. *Watson in King's Rep.*

662. **CHENOPODIUM BOSCIANUM**, Moq. — Erect, slender, 20 high, loosely branched, nearly glabrous; leaves thin, oblong to linear-lanceolate, 1'-2' long, acute, attenuate into a long, slender petiole, the lower sinuate-dentate, or often all entire; flowers very small, solitary, or in small clusters upon the slender branchlets; calyx green, not strongly carinate, partly covering the at length naked seed, which is ½" broad. *Wilson's Rev. Chen. Proc. Am. Acad. LX.*

This is the var. *Boscianum* of *C. album* in Gray's Manual.

668. **AMARANTUS BLITUM**, L. — Annual, glabrous; stem decumbent, branched, angular; leaves dark green, ovate or obovate, with rounded tip, 1'-3' long, long petioled; flower clusters axillary, and in interrupted cymes; flowers minute, tri-merous; sepals oblong, mucronate, exceeding the bracts, shorter than the utricle. *Hook. Flor. Brit. Isl.*

679. **POLYGONUM HARTWRIGHTII**, Gray. — Strigose hirsute or glabrous; stem erect, striate, bearing at the top thickish leaves, which are broadly lanceolate, acute or somewhat obtuse; petioles short; sheathes long with a flat foliaceous limb, which is setose ciliate; peduncle erect, eglandulose, bearing a solitary dense cylindrical spike of rose-colored flowers; stamens 5; style deeply cleft; perigonium eglandulose. *Proc. Am. Acad.*

703. **EUPHORBIA HEXAGONA**, Nutt. Appressed and sparsely hirsute; stems slender, branches angulato-striate; leaves all opposite, short petioled, linear-lanceolate; floral ones attenuated linear; throat and exterior of the involucle appressed hirsute, lobes short, multifid; glands 5; style sub bilobed; capsule glabrous; seeds tuberculate. Plant 1'-1½ high. *DC. Prod. VI.*

756. **SALIX NIGRA**, Marsh., var. *AMYGDALOIDES*, Ands.—(*S. amygdaloides*, Ands.) Aments spreading; scales testaceous somewhat pilose; capsule ovoid conic; style short; stigma short and thick; leaves broadly lanceolate, generally produced into a narrow cuspidate point, glaucous beneath, margins granular serrate; stipules soon deciduous. *Ands. Syn. Sal.*

832. *YUCCA ANGUSTIFOLIA*, Pursh.—Stems none or short; leaves narrowly linear, scarcely narrowed above the broad base, rigid, spiny-pointed, nearly flat above, convex below, with very slender margined fibres,  $1\frac{1}{2}^{\circ}$ - $2\frac{1}{2}^{\circ}$  long; flowers spiked; petals broad-ovate,  $1\frac{1}{2}'$ - $1\frac{3}{4}'$  long; stigmas half as long as the ovary, sessile, erect; capsule cylindric-ovate, thick, obtuse, short-pointed, dry, erect; seeds very thin, smooth, large, 5"-7" in diameter, with a wide margin; albumen not ruminated. *Flor. Col., Port. & Cawl.*

Called by the Mexicans "Soap Weed."















